

UTAH PPA END OF YEAR REPORT FFY2017



**UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
and
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VIII
December, 2017**

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Introduction

This End of Year Report documents the accomplishments of the Utah Department of Environmental Quality under the FY17 Performance Partnership Agreement and Performance Partnership Grant.

Utah DEQ appreciates the flexibility allowed by the PPA and PPG in meeting critical environmental goals and the burden reduction offered by a single end of year report.

We remain committed to the PPA as “the most effective mechanism through which EPA and states can explain jointly-developed goals and priorities and how they will work together to achieve environmental results.”

UDEQ DIVISION OF AIR QUALITY FY2017 END OF YEAR REPORT

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
<p>Goal 1: Improving Air Quality – Achieve and maintain health-based air pollutant standards and reduce risk from toxic air pollutants and indoor air contaminants</p>	<p>Reduce Criteria Pollutants and Regional Haze</p>	<p>1. Develop and implement appropriate SIPs for all areas of the state.</p>	<p>a. State develops all State Implementation Plan revisions required to meet federal law and submits them to EPA for their review and approval according to the established timeframe. STATUS: The State has worked closely with EPA as they review and propose approval of the SIPs submitted by the State earlier. This has required the development and submittal of several commitment letters to make changes to the rules to make them approvable. All changes required in the commitment letters will be to EPA by the dates in the letters.</p> <p>b. All measures contained in the SIP approved by the Air Quality Board are fully implemented. STATUS: Utah has implemented all control measures contained in plans submitted to EPA.</p>
		<p>2. Develop and improve appropriate inventories.</p>	<p>a. The Title V inventory is prepared by August 15. STATUS: The Title V Emissions Fee invoicing was prepared by August 15, 2017.</p> <p>b. Required inventory data is entered into the NEI by June 1. STATUS: All of the required inventory data which include point, area, mobile, and non-road inventories are on track to be submitted to the NEI by the due date of January 15, 2017.</p> <p>c. Non-HAP/non-Criteria/non-MACT regulated pollutants are inventoried as required by federal rules. STATUS: Non-HAP/non-Criteria/non-MACT inventories were submitted by April 15, 2017.</p> <p>d. The inventories required for the Maintenance Plans and SIPs are developed as required and appropriate technical support for each is submitted to EPA for their review with the applicable plan.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>STATUS: All Episodic, base-year, and projected-year inventories required for SIP development were developed and documented within the appropriate TSDs, taken out for public comment and submitted to EPA with the SIP packages.</p>
		<p>3. Continue to meet federal requirements for PSD increment tracking.</p>	<p>a. Increment consumption for major sources is tracked as permits are issued.</p> <p>STATUS: Class I and Class II increment analyses were completed for all PSD permit applications.</p>
		<p>4. Maintain an adequate ambient air quality monitoring program meeting the requirements of 40 CFR Part 58 to assess public exposure to air pollutants and to establish the attainment status.</p>	<p>a. The annual Monitoring Network Plan is completed and submitted to EPA by July 1. Evaluate monitoring network to reflect recent changes in funding and national monitoring requirements to optimize the network.</p> <p>STATUS: The annual network plan was completed and made available for public comment on June 8, 2017. The final document was submitted to EPA on August 10, 2017.</p>
			<p>b. The PM2.5 monitoring network is maintained and operated as appropriate funding is received from EPA.</p> <p>STATUS: The PM2.5 monitoring network was maintained and operated as funded by EPA. Issues identified during EPA's 2015 triennial audit of the monitoring network have been resolved and data has been corrected or invalidated as required.</p> <p>c. Monitoring data are submitted to EPA 90 days after each quarter.</p> <p>STATUS: Raw data are generally submitted to EPA within 90 days after each quarter. Some annual and quarterly audit data have not been uploaded according to this schedule in the past but all required data are now being uploaded on this quarterly schedule.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>d. Locations for new monitoring sites are based on current emission inventories, air quality modeling and EPA regulation.</p> <p>STATUS: This is an ongoing standard procedure. All sites are selected using a variety of inputs, including saturation studies, modeling, availability of a suitable site, etc. The new Enoch Site in Iron County was added using this procedure in 2017.</p> <p>e. Staff works with EPA to assess the impacts of changes to 40 CFR 58, and continue planning for the implementation of those changes (National Monitoring Strategy/NCORE Monitoring Network).</p> <p>STATUS: The required NCORE monitoring continues. Staff are currently working on the expansion of the PAMS network at the NCORE site.</p> <p>f. The National Air Toxics Trends site in Bountiful is operated in accordance with NATTS QAPP with appropriate updates.</p> <p>STATUS: The National Air Toxics Trend site in Bountiful is operating. Samples have been collected and submitted to EPA's contract lab. The data have been reviewed and approved for submittal into EPA's AQS data base.</p>
			<p>g. An appropriate response to each identified NAAQS violation is prepared and submitted to EPA.</p> <p>STATUS: UDAQ and EPA use the current monitoring data to propose the attainment status for each area in Utah. As monitored exceedances of the NAAQS are identified that are influenced by exceptional events, appropriate data flags are being applied, and supporting documentation submitted to EPA for review and concurrence. As nonattainment areas are identified, appropriate</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>State Implementation Plans are developed to address the issues causing the nonattainment status.</p> <p>h. The annual certification of 2016 data is completed by the May 1, 2017 annual certification date.</p> <p>STATUS: Certification of 2016 data was completed and submitted to EPA on April 20, 2017.</p> <p>i. Participation in the Three-State Air Quality Study continues with two major tasks: 1) review the continued operation of the Price ozone/meteorological site after collecting 3 years of Federal regulatory data based on availability of EPA or BLM funding; and 2) provide staff and other support to the Three-State Data Warehouse and modeling efforts as the project design matures and funding allows.</p> <p>STATUS: UDAQ continues to operate the Price monitor in support of the Three-State study goals. This monitor is classified as special purpose and all data is submitted to AIRS. UDAQ staff participates on the 3-State Project steering committee and helped develop the study plan. The monitoring portion of the study was completed on December 31, 2013, but the state continues to operate the site and will continue to operate the site as long as Three-State funding is available. The State has also taken over control of the Escalante monitoring site from the BLM and will operate that site as a State site for the next 5 years, funding permitting.</p> <p>j. Initiate PAMS early implementation activities, including PAMS siting, preliminary PAMS plan for 2017 Annual Monitoring Network Plan, acquisition and installation of ceilometer for mixing height measurements.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>STATUS: Ceilometer has been purchased and is currently waiting installation. The auto GC procurement is underway as is the carbonyl sampling equipment.</p>
		<p>5. Maintain the compliance status of air pollution sources in the state.</p>	<p>a. By November 15, prepare and submit to EPA for review and approval the compliance monitoring strategy incorporating the provisions of EPA's July 14, 2014 Clean Air Act Stationary Source Compliance Monitoring Strategy. Coordinate with EPA to ensure that CMS sources are flagged in ICIS-AIR for inspection, and to ensure that high priority violations and associated enforcement actions are correctly identified in ICIS-AIR.</p> <p>STATUS: The Compliance Monitoring Strategy for FFY 2018 was submitted to USEPA Region VIII on November 3, 2017</p> <p>b. Asbestos notification, certification and outreach programs are continued, and at least 120 on-site inspections are performed.</p> <p>STATUS: Asbestos notification, certification and outreach programs were operated and inspections were performed at 237 sites.</p> <p>c. The work program for the AHERA Toxic Substances Compliance Monitoring Grant is continued. The AHERA Grant Work Plan approved by EPA Region VIII will be the environmental measure of success for the Utah AHERA Program.</p> <p>STATUS: The AHERA Grant work program was completed and reported in a separate report.</p>
		<p>6. Implement the Operating Permits Program meeting the current requirements of Title V, CAAA 1990,</p>	<p>a. An Operating Permits Program is continued as described in program approval from EPA.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
		and the Utah Air Conservation Act.	<p>STATUS: The Operating Permits Program has been implemented as outlined in the program approval from EPA. The Title V Permits have been issued as expeditiously as possible.</p>
		<p>b. The provisions of the Acid Rain Act and 40 CFR Part 72 and Part 76 are implemented.</p> <p>STATUS: The implementation of 40 CFR Parts 72 & 76, and the Acid Rain Act are ongoing.</p>	
		7. Continue issuing approval orders for new sources and modifications of the existing approval orders.	<p>a. A demonstration is made that the NAAQS and PSD increment ceilings in Class I and Class II areas are protected.</p> <p>STATUS: Air quality modeling was completed for major and minor source applications according to R307-410-3.</p>
		<p>b. BACT/LAER determinations are either entered into the RACT/BACT/LAER Clearinghouse or the information is provided to EPA so they can enter the data.</p> <p>STATUS: This is an ongoing process that is performed continually.</p>	
		8. Quality Assurance programs are reviewed for effectiveness.	<p>a. Statistical quality standards are met for the collection of ambient air data and emissions inventories prepared by the State.</p> <p>STATUS: On-going – All statistics were collected for site inspections, monitoring, inventory, etc. following the existing QA protocols.</p>
		<p>b. Rules, regulations, procedures, policies, and protocols are complied with.</p> <p>STATUS: UDAQ complies with all rules, regulations, procedures, policies and protocols.</p>	
		<p>c. Regulatory activities are documented, including the appropriate technical support.</p>	

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>STATUS: All commitments were met or exceeded. Data to verify that commitments were met is in AIRS.</p> <p>d. The State and EPA agree on the adequacy of air program results.</p> <p>STATUS: UDAQ and EPA Region VIII confer regularly on the results of the air program implementation.</p>
		<p>9. Maintain the small business environmental assistance program (SBEAP) to actively assist small businesses to comply with rules of the Board.</p>	<p>a. Educational Assistance is offered to all small businesses affected by adopted NSPS and MACT standards.</p> <p>STATUS: Assistance provided as needed and online resources are available from the DAQ Small Business Environmental Assistance Program website.</p> <p>b. As appropriate, the Small Business Compliance Advisory Panel's role is modified to increase the effectiveness of the SBEAP.</p> <p>STATUS: All business sectors are aided. Resources are provided including online compliance assistance calendars available to all dry cleaners to help them comply with the NESHAP requirements.</p> <p>c. On-site assistance is provided when requested.</p> <p>STATUS: Assistance is provided to businesses when needed.</p> <p>d. The small business work plan for the Small Business Compliance Advisory Panel is modified as appropriate to better meet assistance needs.</p> <p>STATUS: The work plan is modified at each panel meeting.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>e. Assistance tracking is modified as appropriate to better provide and measure assistance needs.</p> <p>STATUS: The SBEAP is reviewing assistance provided and reviewing business needs to provide better quality assistance to the regulated community.</p>
		<p>10. Continue to implement R307-204, Smoke Management, the Utah Smoke Management Plan (SMP), and MOU to mitigate smoke impacts from managed natural fires and prescribed fire on visibility, public nuisance, and the health-based NAAQS.</p>	<p>a. Necessary burn approval and denial decisions made by the Smoke Program Coordinator and Division Director are coordinated with partner agencies.</p> <p>STATUS: UDAQ coordinated all large burn projects by land management agencies, including the Park Service, the Forest Service, the BLM, State Forestry, and the US Fish and Wildlife Service.</p>
		<p>b. The rules and SIP are revised as needed to implement revisions to the FLM burn policies and practices, particularly regarding Use of Wildland Fire issues.</p> <p>STATUS: UDAQ gave comments to the FLMs on FLM-proposed revisions to the rules and is waiting for a response from the FLMs.</p>	
		<p>11. Work with EPA to obtain federal actions on the backlog of State submittals.</p>	<p>a. Appropriate assistance is provided to EPA staff responsible for completing federal action on each submittal to facilitate final EPA action on each.</p> <p>STATUS: The State and EPA have worked together to implement the 3-year plan to eliminate the backlog, resulting in the elimination of a significant portion of the backlog.</p>
		<p>12. Implement designated facility plans, NSPS, NESHAPS, MACTs, CTGs and RACT.</p>	<p>a. MACT Standards that apply to sources in Utah are adopted through rulemaking and implemented through the Operating Permit process as they are developed and promulgated by EPA.</p> <p>STATUS: MACT requirements promulgated by EPA are included in Title V permits.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>b. NSPS standards that apply to sources in Utah are adopted through rulemaking and implemented through the permit process as they are developed and promulgated by EPA.</p> <p>STATUS: New and revised MACT and NSPS standards continue to be adopted in Utah and implemented through the permit process.</p> <p>c. Rules implementing specific source RACT are developed and implemented as appropriate.</p> <p>STATUS: New and revised MACT and NSPS standards continue to be adopted in Utah and implemented through the permit process.</p> <p>d. RACT determinations included in the Ozone Maintenance Plan and PM10 SIP are reviewed and updated as appropriate.</p> <p>STATUS: The RACT requirements were last reviewed as the 8-Hour Ozone Plan was developed, during which RACT requirements for Hill were clarified, improved, and tied to the federal requirements such as MACT, etc. All other RACT determinations in the ozone plan were reviewed and retained or strengthened. RACT requirements in the PM10 SIP are being reviewed and updated as part of the Serious Area PM2.5 SIP.</p> <p>e. UDAQ staff participates in EPA regional meetings and conference calls which will focus on sharing information and building state capacity to identify, characterize and address air toxics risks in Utah communities based on available resources.</p> <p>STATUS: DAQ staff have attended conferences and workshops and participated in EPA regional meetings and conference calls to help identify, characterize and address air toxics in Utah communities as funding permits.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
		13. Submit monitoring data to EPA as required.	<p>a. Quality assured ambient air pollution data is submitted to AQS no later than 90 days after each calendar quarter.</p> <p>STATUS: Quality assured ambient data were submitted to EPA's AQS within 90 days after each quarter.</p> <p>b. Data precision and accuracy assessments are submitted to ICIS-Air no later than 90 days after each calendar quarter.</p> <p>STATUS: Quality-assured P&A data were submitted within 90 days following each quarter.</p> <p>c. ICIS-Air is monitored on an ongoing basis for accuracy and completeness consistent with the MDR's as well as the CMS and HPV Policies</p> <p>STATUS: The database was monitored continuously for accuracy and completeness.</p> <p>d. Data summary reports are printed for regulatory and public use as appropriate.</p> <p>STATUS: Data summary reports were prepared and printed for Board, regulatory and public use.</p>
		<p>14. Respond to questions from the public regarding air quality issues.</p> <p>15. a) Work with other state / federal / local agencies to reduce diesel emissions in Utah. 15. b) Work with Cache and Wasatch Front Counties to implement motor vehicle inspection and maintenance (I/M) programs that meet requirements in the Utah SIP.</p>	<p>a. Ambient air quality data is provided to the AirNow Program.</p> <p>STATUS: Ambient Air quality data was provided to the AirNow program.</p> <p>a. Continue implementing the Utah Clean Diesel Program and apply for additional funding through DERA.</p> <p>STATUS: On-going. DAQ worked with stakeholders to identify potential projects for the Utah Clean Diesel program. DAQ has successfully acquired funds through DERA for the past several</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
		<p>15. c) Transportation Conformity – assist Cache, Wasatch Front, and Utah County MPOs with their CAA and 40 CFR 93, Subpart A conformity determinations as per the provisions of Section XII of the Utah SIP.</p>	<p>years and will continue to build on the success of the current program.</p> <p>b. Continue efforts with Cache, Davis, Salt Lake, Utah, and Weber counties to implement their respective I/M programs.</p> <p>STATUS: On-going. DAQ continues to provide technical and training support to Bear River Health Dept.'s I/M program. DAQ works with Wasatch Front I/M counties with regulation/ordinance and program updates.</p> <p>c. Continue to provide consultation and interagency collaboration to assist the Cache MPO, Wasatch Front Regional Council (WFRC), and the Mountainland Association of Governments (MAG) as they develop conformity determinations for their respective Regional Transportation Plans (RTP) and Transportation Improvement Programs (TIP).</p> <p>STATUS: On-going.</p>
		<p>16. Reduce Air Toxics</p>	<p>a. MACT Standards that apply to sources in Utah are adopted through rulemaking and implemented through the Operating Permit process as they are developed and promulgated by EPA.</p> <p>STATUS: MACT requirements are included in Title V permits as they are promulgated by EPA.</p>
			<p>b. UDAQ staff participates in EPA regional meetings and conference calls which will focus on sharing information and building state capacity to identify, characterize and address air toxics risks in Utah communities based on available resources.</p> <p>STATUS: DAQ staff have attend conferences and</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>workshops and participated in EPA regional meetings and conference calls to help identify, characterize and address air toxics in Utah communities as funding permits. DAQ has completed an analysis of current air toxics data in Utah, and is continuing an air toxics study funded by the state legislature.</p> <p>c. The work to conduct community outreach and analysis concerning air toxics issues is completed based on UDAQ needs and available resources.</p> <p>STATUS: Community outreach and air toxics analysis was performed based on community needs.</p>
Reduce exposure to lead-based paint.	Reduce exposure to lead-based paint.	17. Protect public health and the environment through implementation of the Utah Lead-Based Paint Certification, Accreditation and Work Practices Program.	<p>a. The Utah Lead-Based Paint Grant Work Plan approved by EPA Region VIII will be the environmental measure of success for the Utah Lead-Based Paint Certification, Accreditation and Work Practices Program.</p> <p>STATUS: The Utah Lead-Based Paint Grant work program was completed and reported in a separate report.</p> <p>b. Support the EPA Strategic Plan goal to ensure that the percentage of children with blood lead levels above 5 µg/dl does not rise above the 1.0 percent target for FFY 2017 and work to make further reductions in blood lead levels through 2018. (Baseline is 2.6 percent of children ages 1-5 had elevated blood lead levels (5 µg/dl or greater) in the 2007-2010 sampling period according to the Centers for Disease Control and Prevention's (CDC's) National Health and Nutritional Evaluation Survey (NHANES).</p> <p>STATUS: The Utah Lead-Based Paint Program</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>supported the EPA Strategic Plan goal to eliminate childhood lead poisoning by certifying individuals and firms conducting regulated work activities, performing inspections at structures where regulated abatement work activities were being performed, and performing inspections at renovation firms subject to the Lead-Based Paint Renovation, Repair and Painting rule requirements.</p> <p>c. Support the EPA Strategic Plan goal to reduce the percent difference in the geometric mean blood lead level in low-income children 1-5 years old as compared to the geometric mean for non-low income children 1-5 years old to 10.0 percent by 2018. (Baseline is 28.4 percent difference in the geometric mean blood lead level in low-income children ages 1-5 years old as compared to the geometric mean for non-low income children 1-5 years old in 2007-2010 sampling period according to CDC's NHANES.)</p> <p>STATUS: The Utah Lead-Based Paint Program supported the EPA Strategic Plan goal to reduce the childhood geometric mean blood level by certifying individuals and firms conducting regulated work activities, performing inspections at structures where regulated abatement work activities were being performed, and performing inspections at renovation firms subject to the Lead-Based Renovation, Repair and Painting rule requirements.</p>

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EPA's Portion of the PPA

1. EPA Region VIII will work with other affected EPA offices when appropriate to consider various approaches to addressing specific issues that impact Utah.
2. EPA Region VIII will participate in UDAQ Board Meetings when specific issues regarding the partnership between EPA Region VIII and UDAQ are part of the agenda and travel funds permit.
3. EPA Region VIII will provide training on the newly modernized ICIS-Air national database (previously named AIRS/AFS).

Items Related to UDAQ Planning Branch Activities

1. EPA Region VIII will work with UDAQ as necessary and appropriate when reviewing SIP submittals and initial designation requests as the NAAQS are revised to clarify issues and communicate actions that may affect Utah.
2. EPA Region VIII will work with EPA HQ when appropriate to help elevate issues to the national level that are uniquely western issues.
3. EPA Region VIII will give timely attention to any intermediate work products that are developed in the SIP process so as to provide UDAQ its feedback during project development rather than at the end.
4. EPA will make every effort to determine completeness and to take final action on regulatory actions submitted by Utah in accordance with statutory time frames considering existing resources.
5. EPA Region VIII and UDAQ will work together to prioritize existing SIP submittals and on identifying upcoming SIP revisions. EPA Region VIII will keep UDAQ informed on the status of actions.
6. EPA Region VIII and UDAQ will work together to pursue any feasible early action initiatives for PM_{2.5}.
7. Following review of the Federal Annual Air Quality Report, EPA Region VIII and UDAQ will work together to develop appropriate actions addressing each identified NAAQS violation for any criteria pollutant.

Items Related to UDAQ Permitting Branch Activities

1. EPA will provide review and comments as appropriate for the ITAs within the 30-day public comment period.

Items Related to UDAQ MACT Compliance and Enforcement Activities

EPA Region VIII, Office of Enforcement, Compliance and Environmental Justice and Utah Division of Air Quality will work to keep each other informed of important and potentially controversial activities involving regulated sources in Utah, including activities involving national and regional initiatives. EPA continues to implement PSD/NSR and MACT national initiatives in the refinery, coal-fired power plant, Portland cement, sulfuric and nitric acid and glass industry sectors; Energy Extraction, a national leak detection and repair (LDAR) and flare initiative; and a regional oil and gas industry sector initiative.

**UDEQ DIVISION OF AIR QUALITY – MULTI-PURPOSE GRANT
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EPA Goal and Objective	EPA Measurement	DEQ Goal	DEQ Measure
<p>Goal 1: Improving Air Quality – Achieve and maintain health-based air pollution standards and reduce risk from toxic air pollutants and indoor air contaminants</p>	<p>Reduce Air Toxics</p>	<p>Assess public exposure to air toxics in Bountiful, Davis County by conducting an intensive community-specific air toxics monitoring campaign where sub-daily samples will be collected at three sites in Bountiful area during summer and winter.</p>	<p>a. Develop a comprehensive dataset on carbonyls and VOCs (October 2016-October 2017)</p> <p>STATUS: The dataset has been created.</p>
		<p>Note that, to collect more spatially-resolved data, Utah changed the goal to:</p> <p>Assess public exposure to air toxics in Bountiful, Davis County by conducting a saturation community-specific air toxics monitoring campaign where time-integrated passive samples will be collected at 34 sites in the Bountiful area and surroundings during summer and winter.</p>	<p>b. Prepare a report summarizing main findings by January 2018</p> <p>STATUS: This report is being developed, and will be shared by March of 2018.</p>
			<p>c. Characterize ambient air toxics levels in three Bountiful communities</p> <p>STATUS: Utah has collected air toxics levels at 34 monitoring sites in communities in the Bountiful area and surroundings. The number of sampling sites was increased to provide more spatially-resolved data.</p>
			<p>d. Assess community-scale and diurnal variability in air toxics levels in Bountiful area</p> <p>STATUS: Utah successfully assessed community-scale and seasonal variability in air toxics levels in Bountiful area and surroundings. Nighttime vs. daytime variability was also investigated at select monitoring sites.</p>
			<p>e. Identify source locations of high-risk air toxics</p> <p>STATUS: Utah is in the process of identifying source locations of high-risk air toxics.</p>
			<p>f. Assess public exposure to air toxics within Bountiful community areas</p> <p>STATUS: The public exposure assessment has been completed, and will be included in the final report in (b) above.</p>

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EPA Goal and Objective	EPA Measurement	DEQ Goal	DEQ Measure
			<p>g. Ultimately determine specific emission reduction strategies</p> <p>STATUS: Utah is still in the process of identifying the locations of sources of high-risk air toxics, which will help determine specific emission reduction strategies.</p> <hr/> <p>h. Ultimately evaluate and improve air toxics emissions inventory</p> <p>STATUS: Utah is in the process of evaluating the spatial variability of the collected data and its relation to sources.</p>

UDEQ DIVISION OF DRINKING WATER FY2017 END OF YEAR REPORT

SOURCE PROTECTION

EPA Goals & Objectives	EPA Strategic Targets	UDEQ Goals	UDEQ Measure
<p>Goal 2: Protecting America's Waters.</p> <p>Objective 2.1 Protect Human Health Subobjective 2.1.1 Water Safe to Drinking</p>	<p>FY 17 National Target = 49%</p> <p>Regional Target = 40%</p>	<p>Report to EPA the number of community water systems with "minimized risk achieved by substantial implementation" of source water protection as determined by Utah approval of community water system source protection plans. Numbers may vary from year to year because of the six year review process but will meet or exceed EPA national and regional targets.</p>	<p>Percent of community water systems where risk to public health is minimized through source water protection.</p> <p>STATUS: Utah achieved 48% on this measure.</p>
	<p>FY 17 National Target = 59%</p> <p>Regional Target = 40%</p>	<p>Report to EPA the population numbers served by community water systems where "minimized risk is achieved by substantial implementation of source water protection actions, as determined by Utah's approval of community water systems source protection plans. Numbers may vary from year to year because of the six year review process.</p>	<p>Percent of population served by community water systems where risk to public health is minimized through source water protection.</p> <p>STATUS: Utah achieved 52% on this measure.</p>

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IMPLEMENTATION AND ENFORCEMENT

EPA Goals & Objectives	EPA Strategic Targets	UDEQ Goals	UDEQ Measure
<p><u>Strategic Target SDW-211:</u> Percent of the population served by community water systems (CWS) that receive drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment .</p>	<p>FY17 National/-Regional Target = 92%</p>	<p>To meet or exceed the target measure of 85%</p> <p>UDEQ will maintain its data in the national database, SDWIS-Fed. This includes accurate and timely data entry, quality assurance and data validation.</p>	<p>Annual enforcement review reveals improvement in violation timeliness and accuracy.</p> <p>Inventory, violation, and enforcement data are uploaded to SDWIS-Fed within 45 days after the end of each quarter.</p> <p>STATUS: Utah achieved 83.6% on this measure. There were a couple of large systems which had bacteriological problems during the year which shifted this number lower than expected or hoped.</p>
<p><u>Strategic Target SDW-SP1.N11:</u> Percent of CWS that meet all applicable health-based standards, through approaches that include effective treatment and source water protection.</p>	<p>FY17 National/Regional Target = 90%</p>	<p>To meet or exceed the target measure of 80%.</p> <p>UDEQ will maintain its data in the national database, SDWIS-Fed. This includes accurate and timely data entry, quality assurance and data validation.</p>	<p>STATUS: Utah achieved 91.3% on this measure.</p>
<p><u>Strategic Target SDW-SP2:</u> Percent of “person months” (i.e., all persons served by CWS times 12 months) during which CWS provide drinking water that meets all applicable health-based drinking water standards.</p>	<p>FY17 National/Regional Target = 95%</p>	<p>To meet or exceed the target measure of 85%.</p> <p>UDEQ will maintain its data in the national database, SDWIS-Fed. This includes accurate and timely data entry, quality assurance and data validation.</p>	<p>STATUS: Utah achieved 89.5% on this measure.</p>

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EPA Goals & Objectives	EPA Strategic Targets	UDEQ Goals	UDEQ Measure
<p><u>Strategic Target SDW-01a:</u> Percent of CWS that have undergone a sanitary survey within the past three years (five years for outstanding performers or those groundwater systems approved by UDEQ to provide 4-log treatment of viruses.</p>	<p>FY17 National/Regional Target = 75%</p>	<p>To meet or exceed the target measure of 90%.</p> <p>UDEQ will maintain its data in the national database, SDWIS-Fed. This includes accurate and timely data entry, quality assurance and data validation.</p>	<p>STATUS: Utah achieved 96.62% on this measure.</p>
<p>Goal 5.I Enforcing Environmental Law (Filter/GUI)</p>	<p>UDEQ provides to EPA by 11/15/17:</p> <p>a) a list of all systems that are required to filter under the SWTR, but are not yet filtering. Additionally, report those violations to SDWIS-Fed. For those still on compliance schedules, provide the schedule from the enforcement document. If any systems are not under compliance schedules, for each system provide a rationale and the proposed state action and time frame for securing an enforceable compliance schedule.</p> <p>b) a description of any additional actions and the time frames for completing assessments of groundwater under the influence of surface water (GUI), and the systems for which such assessments need to be completed.</p>	<p>Maintain an accurate list of unfiltered SW/GUI PWSs and a schedule for compliance or/and of actions, with timeframes, required for completion or initial GUI assessments.</p> <p>Provide a report to EPA by 11/15/17.</p> <p>Upload all failure to filter violations to SDWIS.</p>	<p>Accuracy of list of SW/GUI unfiltered systems.</p> <p>Completion of GUI assessments. Report provided to EPA by 11/15/17.</p> <p>All current failure to filter violations uploaded to SDWIS by the end of FY2017 and future violations uploaded when they occur.</p> <p>STATUS: Report provided by email on 11/15/17.</p>
<p>Goal 5.1 Enforcing Environmental Law (ETT)</p>	<p>a) UDEQ annotates the quarterly ETT list created by the ERP and returns a complete annotated list to EPA within 30 days of receipt. The annotations include the State actions planned for</p>	<p>Timely annotate the quarterly ETT list for priority systems.</p>	<p>Annotations are complete and timely.</p> <p>STATUS: The ETT list was annotated and provided as part of the</p>

UDEQ DIVISION OF DRINKING WATER FY2017 END OF YEAR REPORT

EPA Goals & Objectives	EPA Strategic Targets	UDEQ Goals	UDEQ Measure
	<p>each identified priority ETT system, the projected time frame for such actions, and other relevant information that helps EPA evaluate candidates for federal enforcement.</p>		<p>CAP meeting materials each quarter and in all cases within the 30 days of receipt.</p>
	<p>b) UDEQ addresses all priority ETT systems through formal enforcement or appropriate return to compliance within 6 months of their being identified as priorities, with the goal of taking action before systems reach priority status. EPA will take federal enforcement action, as resources allow, if UDEQ does not plan to timely address a priority water system appearing on an ETT list, if UDEQ does not meet its previous commitments to take an enforcement action, or for cases in which PWSs would have been a priority ETT's system if all violations had been uploaded to SDWIS-Fed.</p> <p>c) EPA encourages UDEQ to update its enforcement escalation policies to ensure that all violations receive a state response, and that enforcement priorities are addressed in a timely and appropriate manner.</p>	<p>Timely address all priority ETT systems.</p> <p>UDEQ utilizes its IPS system to assist with addressing violations and determining appropriate formal enforcement. R8 enforcement contact attends the State's quarterly call to discuss enforcement cases.</p>	<p>Priority ETT systems addressed within 6 months of identification.</p> <p>STATUS: All priority systems were addressed within 6 months of initial appearance on the ETT list.</p>
<p>Goal 5.1 Enforcing Environmental Law (SDWIS-Fed)</p>	<p>UDEQ will upload inventory information and all violations, enforcement actions, and applicable return to compliance codes into SDWIS-Fed quarterly.</p>	<p>SDWIS-Fed database is accurate and current.</p>	<p>STATUS: SDWIS-Fed updates were completed timely.</p>

UDEQ DIVISION OF DRINKING WATER FY2017 END OF YEAR REPORT

EPA Goals & Objectives	EPA Strategic Targets	UDEQ Goals	UDEQ Measure
Goal 5.1 Enforcing Environmental Law (Oversight)	<p>UDEQ tracks the compliance of systems that are under UDEQ enforcement and escalates enforcement when a PWS violates an existing formal enforcement action.</p> <p>UDEQ will include all violations in Bilateral Compliance Agreements and other formal enforcement actions.</p> <p>UDEQ will ensure that timely violation letters are sent to PWSs for each violation incurred.</p>	<p>Track compliance of system under UDEQ formal enforcement and take action if a PWS violates its terms.</p> <p>Include all violations in formal enforcement actions.</p> <p>Timely issue violation letters to PWSs for each violation incurred.</p>	<p>EPA's review of enforcement actions reveal that all violations are contained in UDEQ formal enforcement actions.</p> <p>File reviews by the EPA or its contractor detect few late or absent violation letters.</p> <p>STATUS: Utah standard operating procedures should ensure violation letters exist in the electronic files as appropriate.</p>
	<p>UDEQ continues to provide access to State PWS files & data for EPA's on-site enforcement review.</p>	<p>Allow EPA access to UDEQ PWS files and data.</p>	<p>Continue to provide data access to EPA for review.</p> <p>STATUS: Utah has responded to all data requests.</p>
	<p>UDEQ agrees that EPA will use the Uniform Enforcement Oversight System (UEOS) for evaluating the State's enforcement performance.</p>	<p>UEOS evaluation by EPA accepted.</p>	<p>Continue to provide EPA with data necessary to complete the UEOS.</p> <p>STATUS: Utah provides SDWIS-Fed updates more frequently than quarterly.</p>
Goal 5.1 Enforcing Environmental Law (New rules)	<p>It is UDEQ's intent to adopt the RTCR Rule and commence enforcement effective on April 1, 2016, provided SDWIS is able to track and report violations. In the absence of SDWIS tools, UDEQ may have to rely on federal tracking and enforcement until such time as the SDWIS tools are in</p>	<p>If there are violations of any rule that UDEQ does not have primacy for UDEQ will share information regarding these violations with EPA.</p>	<p>UDEQ and EPA will work closely on communicating capabilities related to the RTCR Rule.</p> <p>STATUS: Utah received late notice (after 90 days) of some issues on the</p>

UDEQ DIVISION OF DRINKING WATER FY2017 END OF YEAR REPORT

EPA Goals & Objectives	EPA Strategic Targets	UDEQ Goals	UDEQ Measure
	place. If federal involvement is necessary, UDEQ will cooperate with EPA in identifying water systems and violations for which EPA may need to issue enforcement actions.		RTCR final rule. Utah will work with EPA to facilitate resolution.

Core Activities 2017

Category	Activity	Responsibility
<i>Philosophy, Culture</i>	Customer Service orientation	All
	Implement DEQ & DDW Operating Principles	All
	Actively seek customer feedback	All
	Maintain good communication with partners and customers	All
	Effective Intersection communication	All
	Effective Interdivision communication	All
	Invite local legislators to DW Board Activities	Division Director
	Division Director will collaborate with DW Board in support of joint goals	Division Director
	Division will actively protect public health through water system compliance	All
	Employee job ownership/job empowerment	All
<i>Staff</i>		
	Ensure staff are technically trained to accomplish mission	All
	Reward and recognize employees for excellent work	All
	Managers have an open door policy (and keep staff issues and conversations private)	All
	Serve on national and state committees	All
	All staff will refer customer questions to the right person (the Division's experts)	All
	All staff will keep In/Out Board current	All
	Ensure cross-training and back-up capability where appropriate	All
<i>IT, Gov e-Business</i>		
	Maintain Division Website	Const. Asst. /All
	SDWIS data reporting	Rules
	Automate water treatment plant report transmission	Rules
	Implement geographic information system (GIS) applications, including support for outside partners and other DEQ Divisions	Admin. Serv.

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Category	Activity	Responsibility
	Maintain and enhance the divisions databases: SDWIS/SARA/CASPER	Rules/All
	Continue to implement the Department electronic document management system	Admin. Serv./All
	Add and maintain current and accurate data in all of the Divisions databases and all of the contact information including e-mail addresses.	All
	Maintain "Potential construction projects" list on Division webpage	Const. Assist.
	Participate on EPA's SDWIS NEXTGEN project	Director & Rules
<i>Assistance and Training</i>		
	Staff assistance to Drinking Water Board	Division Director/All
	Technical assistance to water operators	All
	General partnering (targeted training, cooperation, follow-up and training)	All
	Educate locally elected officials and their staff	All
	Provide technical assistance on Drinking Water quality problems	All
	Perform Capacity development functions	Const. Assist.
	Provide support for the Permanent Community Impact Board	Const. Assist./ Engineering
	Perform technical assistance to water treatment plants	All
	Perform support to local water treatment alliances	Eva / All
	Support water planning activities in cooperation with other agencies and local government and technical assistance partners, regarding source protection and system viability	All
	Ensure Drinking Water Board members have sufficient training to make policy decisions	All
<i>Field Work</i>		
	Provide training on physical facility capacity and its issues for consultants, district engineers, and others	Const. Assist. / Engineering
	Perform Sanitary Surveys. Respond to water system	All
	Sanitary survey scheduling with consideration for expertise rotation and geographic grouping	Field Services
	Water treatment plant inspections	Const. Asst. / Engineering
	Construction inspections	Const. Assist. / Engineering
	Develop and obtain additional useful spatial data	All
	Special studies on water treatment technologies	Engineering
	Geologic evaluation of sources	Admin. Serv.
	Work on improving communication with ICS members	Field Services
<i>Regulatory</i>	Emergency Response / System Security / Project Funding	Field Services/Const. Assist./

UDEQ DIVISION OF DRINKING WATER FY2017 END OF YEAR REPORT

Category	Activity	Responsibility
		Engineering
	Assist water systems with developing and maintaining Cross Connection Control Programs	Field Services
	Write, Implement and revise rules as needed	All
	Plan review and operating permits	Const. Assist./ Engineering
	Enforcement & compliance by each section on its rules	All
	Enforcement (AOs, BCAs, AG Referrals, Administrative hearings, Administrative Penalties, etc.)	All
	Property follow-up on assignments made at the Division's quarterly CAP meetings	All
	Unified Enforcement Oversight System	Rules Enforcement
	EPA quarterly reporting	Rules Implementation
	Improvement Priority System	All
	Implement appropriate prevention strategies for systems appearing on EPA's ETT List. Document in the Division's enforcement actions in SDWIS.	Rules Enforcement
	Public Notice	Rules Implementation
	Consumer Confidence Reports	Rules Enforcement
	Report, every three years, on capacity development assistance given to significant non-complying water systems	Const. Assist.
	Quarterly ETT list annotated and back to EPA within 30 days	Rules Enforcement
	Copy of EPA with enforcement action	Rules Enforcement
	Monitoring and MCL Compliance tracking and reporting	Rules Implementation
	Grout Witnesses	Const. Assist./Engineering
	Surface Water Treatment Rule tracking and reporting (also UDI)	Rules Enforcement/Field Services/Engineering
	Source Protection program	Admin. Serv.
	Capacity Development review for new systems	Const. Assist.
	Submit Annual Capacity Development Program Report to EPA by September 30 of each year	Engineering
	Submit a copy of the triennial Governor's Report to EPA by September 30 every third year	Engineering
	Assure that sampling and reporting is being done in a professional, timely and truthful manner	Rules Implementation
	When EPA proposes a rule, we will study the impact, prepare appropriate comments, and encourage the affected PWSs to comment. Finalize each rule by developing an appropriate State Rule, and implement.	All
<i>Certification</i>		
	Backflow Technician Certification	Field Services

UDEQ DIVISION OF DRINKING WATER FY2017 END OF YEAR REPORT

Category	Activity	Responsibility
	Operator Certification	Field Services.
<i>Financial Assistance</i>		
	Financial Assistance program	Const. Assist.
	Capacity assessments for financial assistance	Const. Assist.
	Annual rate and every 4 year needs surveys	Const, Assist,
	Capture systems with significant physical deficiencies and water quality issues in the IPS/PP	Const. Assist./Rules
<i>Miscellaneous</i>		
	State Health Laboratory Coordination	Field Services
	All other Labs. Coordination	Rules Enforcement/Field Services
	Support Services (purchasing, contracting, grants, travel, budget preparation budget/expenditure tracking, and financial reporting, cash receipts, fee schedule).	Const. Assist./Engineering
	Respond to GRAMA requests.	All
	Actively seek financial assistance to enable the Division to pursue its mission	Division Director
<i>Succession/ Planning</i>		
	Keep policies and procedures up to date in E-docs	All
	Promote staff back up for all Division functions	All
	Consider mentoring options for retiring managers/staff	Managers

**UDEQ DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – CERLCA PROGRAM
FY2017 END OF YEAR REPORT**

EPA GOAL	EPA OBJECTIVE	UDEQ GOAL	UDEQ OBJECTIVE
<p>Goal 3: Cleaning Up Communities and Advancing Sustainable Development</p> <p>Objectives 3.1 and 3.3 Promote Sustainable and Livable Communities; Restore Land</p>	<p>Clean up Contaminated Land</p>	<p>I. Maintain a partnership between Utah and EPA while implementing the Superfund program in Utah.</p>	<p>a. Participate in the Region 8 State Superfund managers conferences, when conducted. STATUS: DERR participated with EPA and other Region 8 states at Superfund managers conferences held in Park City, Utah in October 2016 and Butte, Montana in June 2017.</p> <p>b. Encourage and participate in regular coordination meetings with Region 8 remedial program managers, at least every 2 months, to coordinate activities and discuss pertinent issues. STATUS: DERR and EPA Superfund managers held monthly coordination calls to discuss program and site specific issues.</p> <p>c. Participate in conference calls between directors of the State and EPA programs, as needed, to coordinate activities and discuss pertinent issues. STATUS: Calls between program directors were held as needed.</p> <p>d. Jointly organize and attend the annual retreat between EPA and the State, when conducted. STATUS: No retreat was conducted during FY2017.</p>
		<p>II. Continue to discover and assess contaminated sites in Utah and discuss potential solutions to the problems that are identified.</p>	<p>a. Continue to gather information on known groundwater solvent contamination problems in the Salt Lake Valley and other areas in Utah and update site files as needed. STATUS: During FY2017 DERR continued to gather and assess information on groundwater that has been contaminated by solvents. This work is a collaborative effort between EPA, the DERR and the Division of Drinking Water. Contaminant levels will be reviewed on an ongoing three-year basis to look for trends and to help advise water well owners of potential impacts before the well is affected to the point where it is shut down.</p>

**UDEQ DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – CERLCA PROGRAM
FY2017 END OF YEAR REPORT**

EPA GOAL	EPA OBJECTIVE	UDEQ GOAL	UDEQ OBJECTIVE
			<p>b. Continue discovery efforts for listing new sites on SEMS with a focus on the Ogden City area during FY2017. STATUS: DERR continued its discovery efforts in the Ogden City area during FY2017, and will continue to do so during FY2018. Pre-CERCLA worksheets are being submitted to EPA for review to determine if the sites should be listed on SEMS.</p>
			<p>c. Determine the best ways to address the problems that are identified. STATUS: Solutions are identified on a site-by-site basis and in consultation between DERR and EPA Region 8 staff.</p>
		III. Apply the Operating Principles in all work activities.	<p>a. Discuss the application of the Operating Principles to work activities during coordination meetings, as needed. STATUS: The Operating Principles were addressed during DERR/EPA coordination meetings in the context of project planning and implementation.</p>
			<p>b. Ensure all communications are consistent with the Operating Principles. STATUS: DERR routinely conducted communications consistent with the Operating Principles.</p>
		IV. Coordinate proposal of Utah sites to the NPL.	<p>a. Ensure thorough and comprehensive communication between the agencies for all sites that are under consideration for inclusion on the NPL. STATUS: DERR and EPA regularly discussed site status, including NPL potential.</p>
			<p>b. Evaluate potential NPL sites during coordination meetings. STATUS: DERR and EPA held coordination meetings during the year to discuss site status, including NPL potential, and recommendations, if any, for further activities.</p>

**UDEQ DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – CERLCA PROGRAM
FY2017 END OF YEAR REPORT**

EPA GOAL	EPA OBJECTIVE	UDEQ GOAL	UDEQ OBJECTIVE
	Assess and Cleanup Brownfields; Clean up Contaminated Land	V. Encourage redevelopment of Superfund and Brownfields sites in Utah.	<p>a. Implement the EPA-approved State Response Program Work Plan. Key tasks in the work plan include encouraging communities in Utah to participate in the Brownfields program; conducting, or assisting EPA in conducting, Targeted Brownfields Assessments as requested by interested and eligible communities; issuing letters of support to communities applying for Assessment, Revolving Loan Fund, Cleanup or other EPA Grants; providing technical assistance to public and private stakeholders relative to Brownfields redevelopment; and maintaining a complete public record of Brownfields/VCP sites with easy access to information.</p> <p>STATUS: DERR complied with the EPA-approved State Response Program Workplan. DERR conducted outreach directly to local governments and non-profits in order to inform them of resources and services available to assist with Brownfields assessment, cleanup and redevelopment. Outreach was completed in part through the semi-annual DERR Brownfields newsletter, a presentation at the League of Cities and Towns annual conference and at the Alliance for Economic Development quarterly meeting.</p> <p>DERR assisted EPA with the completion of Targeted Brownfields Assessments at the Utah Pride Building and the former Henries Drycleaners in Salt Lake City. DERR provided technical assistance to various stakeholders (such as UTA during the cleanup of their land adjacent to the PAX facility in Salt Lake City, and Provo City, Salt Lake County, Centro Civico Mexicano, Uintah Basin Association of Governments and Orem City with implementation of their respective grants), and conducted pre-application meetings to inform parties of the</p>

**UDEQ DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – CERLCA PROGRAM
FY2017 END OF YEAR REPORT**

EPA GOAL	EPA OBJECTIVE	UDEQ GOAL	UDEQ OBJECTIVE
			<p>Voluntary Cleanup Program (VCP) and Enforceable Written Assurance (EWA) process.</p> <p>DERR continued to maintain a complete public record, with project information and data available over the internet through the EZ Search function and Interactive Map.</p> <p>b. Participate in quarterly Region 8 Brownfields Team teleconferences and meetings and attend the National and Western Regional Brownfields Conferences (when conducted and as budgets allow) to gather current Brownfields information. STATUS: DERR participated in quarterly Region 8 Brownfields team calls. There was no Western Brownfields or National Brownfields Conference during the fiscal year. DERR helped plan and participated in a Region 8 Assessment grant roundtable meeting with other regional grantees.</p> <p>c. Issue Certificates of Completion under the VCP. STATUS: DERR received one VCP application (Mayflower Mine) and issued one Certificate of Completion (Park City Heights) and one No Further Action letter (Ogden Business Exchange phase II) during the year.</p> <p>d. Issue Enforceable Written Assurances to qualified applicants. STATUS: DERR received 10 EWA applications and issued 9 EWAs.</p> <p>e. Coordinate with EPA on Ready for Reuse Determinations for Superfund sites. STATUS: DERR coordinated with EPA on redevelopment issues, but no site received a site-wide ready for anticipated use designation in FY2017.</p>
	Cleanup Contaminated Land	VI. Enhance the Utah Superfund Program, improve the State's and EPA's ability to conduct Superfund activities in	a. Prepare and submit funding applications and cooperative agreements for enhancement of the State Response Program.

**UDEQ DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – CERLCA PROGRAM
FY2017 END OF YEAR REPORT**

EPA GOAL	EPA OBJECTIVE	UDEQ GOAL	UDEQ OBJECTIVE
		Utah, and complete the EPA required accomplishments for FY2017.	<p>STATUS: DERR continued to receive funding under the Superfund Block Cooperative Agreement for Management Assistance, Superfund Core and Site Assessment Activities. Cooperative agreement applications for State-lead Superfund projects were submitted, as needed, to support site-specific activities. DERR also submitted a request for State Response Program funding. Reports were submitted to EPA relative to cooperative agreement funding.</p> <p>b. Continue to develop and enhance the Utah Voluntary Cleanup Program and other State Response Programs. STATUS: DERR continued to develop and enhance the VCP and other components of its State Response Program using Section 128(a) funding. All activities were consistent with the State Response Program Workplan and documented in semi-annual reports submitted to EPA. Public comment periods were initiated for projects such as the Family Center at Fort Union and Centro Civico Mexicano. DERR continued to review documents, conduct site visits and oversee cleanup efforts at Geneva Nitrogen, Ogden Business Exchange (phase 3), Praxair and Family Center at Fort Union, among others. In addition, redevelopment was initiated or continued at several sites (such as Park City Heights and the Winco development in South Salt Lake) as a result of various Brownfields tools.</p> <p>c. Jointly develop and work to achieve the FY2017 planned Superfund remedial accomplishments. STATUS: DERR and EPA Region 8 staff worked closely to achieve the planned accomplishments for FY 2017.</p>

UDEQ DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL FY2017 END OF YEAR REPORT

I. ENVIRONMENT

Mission- Protect human health and the environment by promoting pollution prevention (P2) and ensuring safe waste management through the proper handling, transportation, recycling, treatment, storage and disposal of solid and hazardous wastes, used oil, and waste tires.

EPA Strategic Goal and Objective		EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
GOAL 4: Ensuring the Safety of Chemicals and Preventing Pollution.	Objective 4.2: Promote Pollution Prevention.	By 2018, reduce 600 million pounds of hazardous materials cumulatively through pollution prevention.	Waste Minimization – Implement and support waste minimization and pollution prevention.	<p>a. Identify and evaluate supplemental environmental projects that are a part of a compliance action to determine their contribution to waste minimization and pollution prevention. Supplemental environmental projects contributing to waste minimization/pollution prevention will be reported to EPA.</p> <p>i. Conduct on-site visits to CESQG/VSQG and SQGs to provide updated information on waste minimization programs and opportunities as well as compliance assistance.</p> <p>STATUS: DWMRC performed 45 inspections for SQG, 101 site visits for HW generators & Used Oil collection centers and 16 complaint investigations.</p>
				<p>b. Continue Division pollution prevention policy implementation. Provide pollution prevention information and technical assistance to businesses that generate hazardous waste.</p> <p>STATUS: The Division continues its commitment to a high level of activity for Pollution Prevention and Hazardous Waste Minimization, particularly with its programs for recycling such as used oil and waste tires. The Division provided educational outreach to small businesses and schools promoting P2 . Nine educational outreach presentations were performed for approximately 650 participants.</p>
				<p>c. Continue working with EPA hazardous waste minimization programs to assure that P2</p>

**UDEQ DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL
FY2017 END OF YEAR REPORT**

EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>resources are appropriate to meet common goals. EPA and the Division will look for opportunities to publicize how state actions support national goals. Review, comment on, and utilize state hazardous waste generation profiles prepared by EPA to increase waste minimization and P2 efforts and successes and to meet other specific state needs. Identify opportunities to link waste minimization efforts to reductions in EPA's priority chemicals in RCRA waste streams generated within the state.</p> <p>STATUS: The Division continues to support EPA on inspections to educate the public on waste minimization opportunities such as recycling/reuse.</p> <p>d. Administer an effective used oil recycling program.</p> <p>i. Track and evaluate the amount of used oil collected for recycling, particularly used oil collected from Do-it-yourselfers (DIYers).</p> <p>STATUS: DIYer collection centers collected 461,489 gallons of used from January 2016 through December 2016. Used Oil permittees reported collection of 7,777,316 gallons of used oil.</p> <p>ii. Review and process semi-annual DIYer reimbursements within established timeframes.</p> <p>STATUS: DIYer Used Oil reimbursements were submitted within the specified time frames.</p> <p>iii. Support and help to maintain a sufficient number DIYer collection centers to make it convenient for the public to recycle their used oil.</p> <p>STATUS: The Division currently has 409 UOCs in the program.</p> <p>iv. Provide current listing of collection centers via the Division Web site.</p>

**UDEQ DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL
FY2017 END OF YEAR REPORT**

EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>STATUS: The web page is updated on a regular basis.</p> <p>v. Document the number of new collection centers established during the fiscal year.</p> <p>STATUS: The Division has 28 new collection centers.</p> <p>vi. Maintain an effective Used Oil Block Grant Program to promote the recycling of used oil. Document the amount of funds awarded.</p> <p>STATUS: The Division awarded \$4,998.87 in used oil block grants from October 2016 to August 2017.</p>
<p>GOAL 3: Cleaning up Communities and Advancing Sustainable Development</p>	<p>Objective 3.2: Preserve Land. Conserve resources and prevent land contamination by reducing waste generation, increasing recycling, and ensuring proper management of waste and petroleum products.</p>	<p>Minimize Releases of Hazardous Waste and Petroleum Products</p>	<p>Permits, Closure, and Post-Closure-</p> <p>a. Maintain effective hazardous waste permitting and closure/post closure programs.</p> <p>STATUS: The Division maintains an effective hazardous waste permitting program.</p> <p>The Division completed:</p> <p>13 Class 1 permit modifications, 4 Class 2 permit modifications, 1 Class 3 permit modification, 7 Temporary Authorizations, and 44 Emergency Permits</p> <p>The Division completed four HW permit renewals; Chevron Refinery, Clean Harbors Clive, TEADN and Dugway Proving Grounds .</p> <p>b. Maintain accurate information of the hazardous waste universe and status of hazardous waste facilities subject to closure requirements, post-closure permits, and operating permits. Provide the preceding information through automated data systems (RCRAInfo) for all required data elements</p>

**UDEQ DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL
FY2017 END OF YEAR REPORT**

EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>by the 20th of the month following the activity. STATUS: Information was entered as required.</p> <p>c. Provide appropriate hazardous waste closure/post-closure and permit response as dictated by case-by-case specifics, regulatory/statutory requirements, permit conditions, and program priorities. Appropriate responses may include, but are not limited to; closure plan approvals (RCRAInfo data element CL360), closure verifications (CL380), final post-closure permit determinations/issuances (PC200), and final operating permit determinations (OP200). Permit modifications (PC240) are as equally important as the preceding activities because they generally reflect upgrading or updating permit conditions resulting in operational improvements for permitted TSDFs in managing hazardous waste. STATUS: The Division provides appropriate hazardous waste closure/post closure and permit response in reviewing, modifying and approve closure and post closure plans and permits.</p>
GOAL 3: Cleaning up Communities and Advancing Sustainable Development.	Objective 3.3: Restore Land. Prepare for and respond to accidental or intentional releases of contaminants and clean up and restore polluted sites for reuse.	Corrective Action-	<p>a. Maintain effective hazardous waste corrective action program, including stabilization of environmental releases and cleanup of contaminated waste sites. STATUS: The Division maintains an effective hazardous waste corrective action program with a trained staff of scientists and engineers.</p> <p>b. Maintain and update, as necessary, facility-specific corrective action information (universe identification and status) for hazardous waste facilities subject to corrective action, including site assessment, stabilization (accounting for health and environmental risk control measures), and</p>

**UDEQ DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL
FY2017 END OF YEAR REPORT**

EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>regular corrective action process activities through staff interaction, correspondence and/or automated data systems (RCRAInfo). For RCRAInfo, all required data elements will be entered by the 20th of the month following the activity STATUS: Information entered as required.</p> <p>c. Provide appropriate hazardous waste corrective action response as dictated by case-by-case specifics, regulatory/statutory requirements, permit conditions, or program priorities. Emphasis is on high priority facilities. Appropriate measures may include initial assessment of all TSDs in the corrective action universe including assessment completed (CA050), determination of the need for an RFI (CA070), and CA universe ranking (CA075)), RFI imposed (CA100), RFI approved (CA200), remedy selection (CA400), CMI construction completed (CA550), and corrective action process completed (CA999/RE). STATUS: : The Division completed 0 CA100, 29 CA 150s, 43 CA 200s, 44 CA400s, 47 CA550s, 2 CA900s and 45 CA999s.</p> <p>d. Provide appropriate stabilization response as dictated by case-by-case specifics, regulatory/statutory requirements, permit conditions, or program priorities. Emphasis is on high priority facilities. Appropriate measures may include stabilization measures evaluation (CA225), stabilization imposed (CA600), stabilization construction completed (CA650), and stabilization process complete (CA999/ST). STATUS: Completed 0 CA225's, 1 CA600's, 1 CA650's, and 0 CA999/st's.</p>

**UDEQ DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL
FY2017 END OF YEAR REPORT**

EPA Strategic Goal and Objective		EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
				<p>e. In coordination with EPA Region 8, continue to evaluate annually and amend, as necessary, the facility-by-facility multi-year plan for corrective action activities</p> <p>STATUS: EPA was provided with a 2020 Corrective Action update.</p>
<p>GOAL 5: Enforcing Environmental Laws.</p> <p>Objective 5.1 Enforce Environmental Laws.</p> <p>Region 8 will continue to support the multimedia Energy Extraction initiative and Regional health care sector initiative. EPA will coordinate with UDEQ prior to commencing any activities related to these initiatives.</p>		<p>By 2018, conduct 79,000 federal inspections and evaluations (5-year cumulative).</p>	<p>Compliance and Enforcement- Evaluate compliance status of solid waste, hazardous waste, and used oil handlers and facilities and foster an ongoing commitment to compliance and environmental protection through on-site inspections and compliance assistance activities.</p>	<p>a. Update hazardous waste inspection universe and develop inspection schedule for FY 2018 by September 30, 2017. The selected universe and schedule will incorporate, as appropriate, state, regional, and national priorities. The selected schedule will also include 20% of the large quantity generator (LQG) universe as determined and agreed to by the Division and EPA using RCRAInfo as of September 1, 2017. The Region will develop its FY2018 Inspection schedule and submit to the Division by October 30, 2017.</p> <p>STATUS: The Division provided the required inspection schedule to EPA.</p>
				<p>b. Complete targeted inspections by September 30, 2017.</p> <p>STATUS: The Division completed the targeted inspections by the required timeframe.</p>
				<p>c. Participate in joint state and federal industry sectors initiatives.</p> <p>STATUS: Division staff accompanied EPA on inspections identified by the federal sector initiatives.</p>
				<p>d. Continue implementation of the small quantity generator compliance assistance program in FY 2017.</p> <p>STATUS: Division continues to implement the SQG and VSQG compliance assistance program through educational outreach presentations and on-site compliance assistance visits.</p>

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EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>e. Provide facility specific compliance and enforcement information through the proper and timely entering of program data into automated data systems (RCRAInfo). STATUS: The Division entered all information as required. The Division issued 15 warning letters, 12 NOVs and 2 CO and one SCO No penalties were collected.</p> <p>f. Consider economic factors in determining penalties for violations. i. Use EPA economic computer models to assist in evaluation. ii. Use maximum flexibility when negotiating consent agreements to include consideration of financial viability of regulated party. STATUS: Economic factors were considered in determining penalties. EPA models and flexibility were used where appropriate.</p> <p>g. Continue coordination of EPA Region 8's implementation of the CERCLA Offsite Rule (OSR). A regional implementation policy has been established and will serve as the basis for the Region's implementation of the OSR STATUS: The Division coordinated with EPA Region 8 as required.</p> <p>h. EPA has identified Financial Assurance through the National Program Management Guidance as a priority for FY2017. Coordinate with the Region on financial assurance as appropriate. Should the Region or Headquarters identify a RCRA entity operating in several states with financial assurance compliance issues, EPA reserves the right to pursue compliance or enforcement activities with the identified operator in accordance with the Utah/EPA Enforcement Agreement. STATUS: The Division coordinated with EPA Region 8 and regularly participated in national financial assurance calls.</p>

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EPA Strategic Goal and Objective		EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
				<p>i. Utah will inspect at least 50 % of the active treatment, storage and disposal facilities during FY 2017. STATUS: Inspections were completed as required. A total of 8 TSDF inspections were completed out of 14 total. Also, three CERCLA Off-site rule inspections were jointly performed with EPA.</p> <p>j. Incorporate, as appropriate, environmental justice information in the administration of the hazardous waste program. STATUS: DWMRC considered environmental justice while administering the HW program.</p>
GOAL 3: Cleaning up Communities and Advancing Sustainable Development.	Objective 3.2: Preserve Land. Conserve resources and prevent land contamination by reducing waste generation, increasing recycling, and ensuring proper management of waste and petroleum products.		Environmental Justice- The Division recognizes that incorporation of environmental justice into the RCRA regulatory program is a priority for EPA Region 8. Upon request, EPA will provide the Division access to Geographic Information System (GIS) environmental justice tools; provide information to the Division on environmental justice grants; and share information about any available environmental justice resources. The Division may utilize EPA staff and GIS resources, as appropriate, in the implementation of the State hazardous waste program.	<p>a. Incorporate, as appropriate, environmental justice information in the administration of the hazardous waste program. STATUS: The Division considered environmental justice.</p>
GOAL 3: Cleaning up Communities and Advancing	Objective 3.1: Promote Sustainable and	Promote sustainable communities	State-Based Regulation of Environmental Programs-	<p>a. Develop statutory and regulatory authorities to qualify for continued program authorization. STATUS: The Division is in the process of compiling</p>

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EPA Strategic Goal and Objective		EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
Sustainable Development.	Livable Communities. Support sustainable, resilient, and livable communities by working with local, state, tribal, and federal partners to promote smart growth, emergency preparedness and recovery planning, Brownfield redevelopment, and the equitable distribution of environmental benefits.			an authorization package to submit to the EPA.
				b. Adopt new hazardous waste, solid waste, and used oil rules promulgated by EPA to maintain regulatory equivalency and program authorization. STATUS: The Division adopted the new HWGIR effective August 31, 2017
				c. Identify new federal hazardous waste rules promulgated during cluster period ending June 30, 2016 and which require adoption by the Waste Management and Radiation Control Board. STATUS: The HWGIR and Used Oil Rules.

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EPA Strategic Goal and Objective		EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
GOAL 3: Cleaning up Communities and Advancing Sustainable Development.	Objective 3.1: Promote Sustainable and Livable Communities. Support sustainable, resilient, and livable communities by working with local, state, tribal, and federal partners to promote smart growth, emergency preparedness and recovery planning, Brownfield redevelopment, and the equitable distribution of environmental benefits.	Promote sustainable communities	Partnership with Federal, State, Local and Tribal Governments-	<p>a. The Environmental Services Delivery Plan (ESDP) delineates roles and responsibilities, joint goals and objectives, and establishes accountability between the Division and local health departments and local governments. Effectiveness of the Environmental Service Delivery Plan in developing a state/local partnership, coordinating delivery of services, and obtaining adequate resources will be evaluated.</p> <ul style="list-style-type: none"> i. Work with federal, state, local (including local health departments), and tribal governments and provide information to plan for and manage the environmental impacts of growth. ii. Provide technical and non-technical training to local health departments, industry, local governments, or other groups. iii. Focus on teamwork and partnership in identifying and resolving problems. iv. Address key problems identified by government partners and develop and implement solutions. <p>STATUS: The Division coordinated with federal, state and local governments as requested.</p>
				<p>b. Identify key hazardous waste management problems and implement a solution in partnership with local health departments, local government, the Division, and EPA.</p> <p>STATUS: The Division provided training as requested. The Division also provided online training for hazardous waste, used oil and waste tires to the LHD.</p>
				<p>c. Maintain positive relationship between the Division and local health departments.</p> <ul style="list-style-type: none"> i. Notify local health departments of any Division

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EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>activities occurring in their areas of jurisdiction.</p> <ul style="list-style-type: none"> ii. Ensure directors of local health departments, or their designees, are copied on correspondence related to the Division activities associated with their area of jurisdiction. iii. Meet with each local health department at least annually. <p>STATUS: The Division focused on teamwork and partnership to solve problems.</p> <hr/> <ul style="list-style-type: none"> d. Inform local governments concerning the Division programs and activities in order to be able to comply with appropriate regulations and plan for future needs. <ul style="list-style-type: none"> i. Participate, when invited, with local government organizations, at regular seminars and training meetings, as well as respond to individual requests for information. ii. Solicit input from local governments regarding proposed rules which could impact their areas of jurisdiction. <p>STATUS: The Division worked with its partners to identify problems and develop solutions.</p> <hr/> <ul style="list-style-type: none"> e. Enhance the State/EPA partnership to ensure the management of a quality hazardous waste program. <ul style="list-style-type: none"> i. Maintain the MOA, the enforcement agreement, quality assurance plan for environmental data collection, and other operating guidance. ii. Jointly plan and prioritize program goals, objectives and activities which address joint priorities. The Division and EPA will work

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EPA Strategic Goal and Objective	EPA Strategic Measurement	UDEQ Goal	UDEQ Measure and Status
			<p>together on PPA development, program activities and priorities, inspection strategies, planning meetings, program reviews, and national assessments of major program elements.</p> <p>iii.. Maintain a high level of coordination and cooperation between state and EPA staff to assure successful and effective administration of the program. Coordination includes evaluation of desirable technical support and targets for joint efforts and work sharing.</p> <p>iv. Maintain frequent and open communication on routine matters, changes in program capability, legislation, and resource levels, emergency situations, and other key activities as described in the MOA. EPA and the Division will hold regular meetings or conduct conference calls, at least quarterly, to share information, identify and solve problems, and engage in short-term planning efforts.</p> <p>v. Jointly identify state training and technical assistance needs. EPA will make training and technical assistance available to the state and will work towards improving the capability to provide high quality assistance.</p> <p>STATUS: The Division works closely with EPA attending training courses and workgroups with upcoming regulations. The Division attends webinars and training courses provided by EPA, RIN, Western States and ASTWSMO in partnership with EPA.</p>

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FY 2017 Hazardous Waste Program Commitments for STATE		
Event	FY 2017	
	Committed	Achieved
Closure Activities (Unit Level)		
Closure Plan Approval (CL360) for LDUs	0	0
Closure Verification (CL380) for LDUs	0	0
Closure Plan Approval (CL360) for TSUs	0	0
Closure Verification (CL380) for TSUs	0	0
Closure Plan Approval (CL360) for CUs	0	0
Closure Verification (CL380) for CUs	0	0
Closure Plan Approvals Total (LDUs+TSUs+CUs)	0	0
Closure Verifications Total (LDUs+TSUs+CUs)	0	0
Permit Activities at GPRA Universe Facilities (Facility Level)		
Permitted Facilities under Approved Controls	0	0
Permit Renewals due*	2	4
Permit Activities Totals	0	0
Permit Activities for GPRA Universe Facilities (Unit Level)		
Controls in Place for LDUs on Closure Track	0	0
Controls in Place for LDUs on Operating Track	0	0
Controls in Place for TSUs on Operating Track	0	0
Controls in Place for CUs on Operating Track	0	0
Corrective Action Activities at GPRA Universe Facilities (Facility Level)		
RCRA Facility Assessments (CA050)	0	0
Overall Facility NCAPS Ranking (CA075)	0	0

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Facility Stabilization Assessment (CA225)	0	0
Facility Remedy Selection (CA400)	0	0
Facility Construction Completion (CA550) (GPRA measure)	0	0
Human Health Exposures Controlled Determination (CA725) (GPRA measure)	0	0
Groundwater Migration Controlled Determination (CA750) (GPRA measure)	0	0
CA Performance Standards Attained/CA Process Terminated (CA900/CA999) (GPRA Measure)	0	0
Corrective Action Activities at GPRA Universe Facilities (Area Level)		
RFI Imposed (CA100) (area level)	0	0
RFI Approved (CA200) (area level)	10	43
Remedy Selection (CA400) (area level)	9	44
Construction Completion (CA550) (area level)	9	47
Corrections completed (CA900CR) (area level)	0	2
Corrective Action Completed (CA999) (area level)	9	45

*Permit Renewals Due this Strategic Period (FY14-18)

Permit Renewals Commitments

Clean Harbors Clive
TEAD-N

Actual Permit Renewals

Chevron Refinery
Clean Harbors Clive
Dugway Proving Ground (Carry over from FY16)
TEAD-N

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Corrective Action Activities (Area Level)

Anderson Geneva

CMI Construction Complete (CA550) for SWMUs 2.02 RM-7A and RM-7B and GW 4.0-4.9 on 8/9/17.

Corrective Action Complete (CA999) for SWMUs 2.02 RM-7A and RM-7B and GW 4.0-4.9 on 8/9/17.

ATK Launch Systems – Bacchus and NIROP

RFI Report Approval (CA200) for 3 Group 4b SWMUs at ATK Bacchus (S-38, SA-3, BW-12) on 9/22/17.

RFI Report Approval (CA200) for 12 Group 10 SWMUs at ATK Bacchus (SP-9, SP-11, SP-12, SP-14, SP-16, SP-18, SP-19, SP-21, SP-22, SP-28, SP-30 and SA-5 on 4/18/17.

RFI Report Approval (CA200) for 1 Group 10 SWMU at ATK Bacchus (SP-29) on 5/19/17.

Remedy Selection (CA400) for 3 Group 4b SWMU at ATK Bacchus (S-38, SA-3, BW-12) on 9/22/17.

Remedy Selection (CA400) for 12 Group 10 SWMUs at ATK Bacchus (SP-9, SP-11, SP-12, SP-14, SP-16, SP-18, SP-19, SP-21, SP-22, SP-28, SP-30 and SA-5 on 4/18/17.

Remedy Selection (CA400) for 1 Group 10 SWMU at ATK Bacchus (SP-29) on 5/19/17.

CMI Construction Complete (CA550) for three Group 4b SWMUs at ATK Bacchus (S-38, SA-3, BW-12) on 9/22/17.

CMI Construction Complete (CA550) for 12 Group 10 SWMUs at ATK Bacchus (SP-9, SP-11, SP-12, SP-14, SP-16, SP-18, SP-19, SP-21, SP-22, SP-28, SP-30 and SA-5 on 4/18/17.

CMI Construction Complete (CA550) for or 1 Group 10 SWMU at ATK Bacchus (SP-29) on 5/19/17.

Corrective Action Complete (CA900) for one Group 4b SWMU at ATK Bacchus (BW-12) on 9/22/17.

Corrective Action Complete (CA999) for two Group 4b SWMUs at ATK Bacchus (S-38, SA-3) on 9/22/17.

Corrective Action Complete (CA999) for 12 Group 10 SWMUs at ATK Bacchus (SP-9, SP-11, SP-12, SP-14, SP-16, SP-18, SP-19, SP-21, SP-22, SP-28, SP-30 and SA-5 on 4/18/17.

Corrective Action Complete (CA999) for or 1 Group 10 SWMU at ATK Bacchus (SP-29) on 5/19/17.

ATK Launch Systems – Promontory

RFI Report Approval (CA200) for 15 SWMUs (225, 226, 257, 258, 259, 261, 263, 264, 266, 267, 270, 274, 345, 413 and 433) on 3/10/17.

RFI Report Approval (CA200) for 8 SWMUs (255, 256, 260, 268, 269, 409, 472 and 611) on 9/22/17.

Remedy Selection (CA400) for 15 SWMUs (225, 226, 257, 258, 259, 261, 263, 264, 266, 267, 270, 274, 345, 413 and 433) on 3/10/17.

Remedy Selection (CA400) for 8 SWMUs (255, 256, 260, 268, 269, 409, 472 and 611) on 9/22/17.

CMI Construction Complete (CA550) for 15 SWMUs (225, 226, 257, 258, 259, 261, 263, 264, 266, 267, 270, 274, 345, 413 and 433) on 3/10/17.

CMI Construction Complete (CA550) for 8 SWMUs (255, 256, 260, 268, 269, 409, 472 and 611) on 9/22/17.

Corrective Action Complete (CA999) for 15 SWMUs (225, 226, 257, 258, 259, 261, 263, 264, 266, 267, 270, 274, 345, 413 and 433) on 3/10/17.

Corrective Action Complete (CA999) for 8 SWMUs (255, 256, 260, 268, 269, 409, 472 and 611) on 9/22/17.

Big West Oil (Flying J Refinery)

RFI Work Plan Approval (CA150) for 27 SWMUs and 2 AOCs (1, 2, 3, 4, 5, 6, 7, 8, 13, 15, 17, 19, 20, 21, 22, 23, 24, 26, 29, 31, 33, 34, 35, 37, 39, 40, 41, AOC 1, AOC 2) on 7/5/17.

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TEADS

RFI Report Approval (CA200) for 4 SWMUs (30A, 30B, 30C, 30D) on 10/14/16.
Remedy Selection (CA400) for 4 SWMUs (30A, 30B, 30C, 30D) on 10/14/16.
Remedy Selection (CA400) for SWMU 27 on 5/19/17.
CMI Work Plan Approved (CA500) for SWMU 13 on 3/31/17.
CMI Construction Complete (CA550) for 4 SWMUs (30A, 30B, 30C, 30D) on 10/14/16.
CMI Construction Complete (CA550) for SWMU 27 on 5/19/17.
Interim Measures Complete (CA650) for SWMU 27 on 5/19/17.
Corrective Action Complete (CA999) for 3 SWMUs (30B, 30C, 30D) on 10/14/16.
Corrective Action Complete (CA999) for SWMU 27 on 5/19/17.
Corrective Action Complete (CA900CR) for SWMU 30A on 10/14/16.

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EPA Goals and Objectives	DWQ Goals and Measures	
<p>EPA STRATEGIC GOAL 2: Protecting America's Water. Protect and restore our waters to ensure that drinking water is safe, and that aquatic ecosystems sustain fish, plants and wildlife, and economic, recreational , and subsistence activities.</p> <p>EPA OBJECTIVE 2.1: Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters, including source waters.</p> <p>EPA OBJECTIVE 2.2: Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.</p>	<p>DWQ GOAL: Protect, maintain, and enhance the quality of Utah's surface water and ground water to allow appropriate beneficial uses, and protect public health while giving reasonable consideration to economic impacts.</p>	
	<p style="text-align: center;">UPDES PROGRAM</p> <p>Maintain an acceptable UPDES Program per agreement with EPA. The Utah Department of Environmental Quality (DEQ) shall fully implement and enforce its delegated UPDES program (including, as appropriate, general permitting, pretreatment, biosolids, CAFO, and storm water programs) as required by 40 CFR Parts 122-124, 403, 501 and 503, its delegation MOA July 7, 1987, SEA, Inspection Plan, and any other agreements with EPA regarding program implementation. The PPA may specify goals and objectives for activities beyond the base level of performance, but, in no way, should this be interpreted as relief from full implementation of the base program.</p> <p>DEQ certifies that it has, maintains, and implements an adequate UPDES program including pretreatment, biosolids, CAFO, and storm water in conformance with federal and state laws and regulations and conditions set forth in program authorization (delegation) documents. As long as the DEQ maintains an adequate program, the EPA and the DEQ agree that this Agreement shall remain in effect, except as amended through mutual agreement.</p> <p>Grant dollars awarded by the EPA may be used by the DWQ UPDES Program to perform core program activities to adequately maintain its UPDES program, even when these activities are not specifically defined by goals, measures, and/or reporting requirements.</p> <p>Continue to fully implement the ongoing UPDES pretreatment, biosolids, CAFO, and stormwater management programs as per the following "CORE PROGRAM ACTIVITIES", "COMPLIANCE AND ENFORCEMENT ACTIVITIES" and "PERMIT ACTIVITIES".</p>	
	<p>1. Individual Permits</p>	<p>DWQ will report annually the number and percent of facilities that have a discharge requiring an individual permit that:</p> <p>a. are covered by a current UPDES permit STATUS: 123 Individual permits, including 3 medium MS4 permits and 2 stand-alone Biosolids permits (Note that most Biosolids</p>

**UDEQ DIVISION OF WATER QUALITY
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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>permits are not included herein, as they are combined with their respective Individual Municipal POTW permits).</p> <p>b. have expired individual permits STATUS: As of 12/6/2017, there were 12 expired individual permits and 6 Biosolids permits that are expired due to the expiration of the corresponding POTW permit.</p> <p>c. have applied for, but have not yet been issued an individual permit STATUS: There are two (2) facilities that have applied for individual permits, and these permits have not yet been issued as of 12/6/2017.</p> <p>d. have individual permits under administrative or judicial appeal STATUS: Currently there are zero (0) facilities that are under administrative appeal.</p>
	2. Priority Permits	<p>a. Utah will continue to emphasize the development of permits which appear on the EPA Priority Permits list, specifically targeting the permit issuance commitments for the current fiscal year. STATUS: Completed and ongoing.</p> <p>b. Each year, 95% of priority permits and 90% of all permits are issued or reissued within the five year statutory timeframe. If the number of backlogged permits is greater than 30% at any time, provide an overall permit issuance/backlog reduction plan showing how the State will expeditiously reduce the backlog to 10% upon request from EPA)</p>

**UDEQ DIVISION OF WATER QUALITY
FY2017 END OF YEAR REPORT**

EPA Goals and Objectives	DWQ Goals and Measures	
		<p>STATUS: Based upon our entire permit universe, our number of backlogged permits is significantly less than 30% (~4% as of 12/6/2017).</p>
	3. Whole Effluent Toxicity (WET)	<p>a. Assure proper implementation of WET requirements in UPDES permits. b. Following EPA's review and comment, revise Utah's WET policy and guidelines in order to assure alignment with EPA's National WET policy and/or regulations. Target 120 days following receipt of EPA's final comments. EPA Region 8 will notify DWQ when the EPA comments received are considered final. STATUS: a completed and ongoing, b ongoing.</p>
	4. Reasonable Potential Process	<p>a. Utah will continue to implement the process/procedures for RP consistent with 40 CFR 122.44(d). STATUS: Completed and ongoing.</p>
	5. Stormwater	<p>a. Involve regulatory agencies and the public as necessary to effectively permit storm water discharges. The State program is accessible by the public and regulated entities (i.e., contact information and web sites, etc.). STATUS: The Utah storm water program permits and contacts are posted on the DWQ website. Storm Water staff attend each monthly Utah Storm Water Advisory Committee (USWAC) meeting.</p> <p>b. Include EPA in the review process prior to issuing general permits for storm water discharges. <i>STATUS: Two permits were renewed in FY17: MSGP (Sectors A, B, C, D, F, H, M, T, W) and the General Permit for Discharges from Small MS4s (UTR090000).</i></p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p><i>Comments were solicited from EPA for both permits. Upon request from EPA, provide a list of storm water sources associated with industrial activity, construction sites over one acre, and a list of designated storm water sources (including Municipal Phase I and Phase II) that are covered by a current individual or general UPDES permit or other enforceable mechanism.</i></p> <p>STATUS: Industrial, construction and municipal permittees are listed in the ICIS database and Utah's Storm Water Database.</p> <p>c. Continue outreach/education activities for the Phase II Storm Water Program.</p> <p>STATUS: Storm Water staff provides ongoing outreach and education through the annual Storm Water Expo, monthly USWAC meetings, County coalition meetings, stakeholder association meetings, Floodplain Managers meeting, Utah League of Cities and Towns, APWA, ASCE and other conferences and venues as requested.</p>
	6. Pretreatment	<p>a. Provide EPA with the number and percent of local Pretreatment programs that have implemented Pretreatment Streamlining Regulations.</p> <p>b. Provide the number of categorical industrial users (CIUs) in non-approved pretreatment programs</p> <p>c. Provide the number of CIUs in non-approved pretreatment programs permitted by the State.).</p> <p>d. Identify in ICIS the following Pretreatment Program statistics:</p> <p style="padding-left: 20px;">i. The number of significant industrial users (SIUs) that discharge to</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>POTWs with approved Pretreatment Programs,</p> <ul style="list-style-type: none"> ii. The number of significant industrial users (SIUs) that discharge to POTWs with approved Pretreatment Programs that have adequate control mechanisms implementing applicable pretreatment standards and requirements. (95% coverage is the Regional commitment) iii. The number of categorical industrial users (CIUs) that have adequate control mechanisms implementing applicable pretreatment standards and requirements in approved pretreatment programs. <p>STATUS: Item a, of the 19 pretreatment programs, 13, or 68%, have implemented streamlining requirements. The remaining 10 programs, or 32%, are working to incorporate the streamlining requirements into their legal authority. Item b, DWQ is aware of 2 CIUs in non-approved pretreatment program areas. Item c, of the 2 CIUs, one is permitted by DWQ and the other is prohibited by the POTW from discharging. Item d.i., there are 281 SIUs in approved pretreatment programs which includes zero discharging SIUs that are permitted by the approved pretreatment program. Item d.ii., 100% of SIUs that are required to have a permit are permitted. Currently, DWQ is aware of one SIU that is not permitted due to the POTW determination that the facility is not impacting the POTW, therefore no permit is needed at this time. Item d.iii., there are 179 CIUs that have adequate control mechanisms.</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
	7. Sewage Sludge (Biosolids)	<p>Promote the beneficial use of biosolids and implement biosolids regulations.</p> <ul style="list-style-type: none"> a. Provide the % and # of UPDES permits that contain biosolids language. b. Maintain data in the ICIS database. c. Reissue all biosolids permits which will expire in FY2017 and transition into consolidated permits as needed. d. Submit an End-of-Year report to EPA for the preceding calendar year containing a summary of DWQs actions under their biosolids program. Also include a list of facilities that beneficially reuse biosolids, methods of reuse and the tons reused. <p>STATUS: Item a, 100%, of individual UPDES permits for mechanical wastewater treatment plants include biosolids permit requirements (41 permits total). Items b and c, completed and ongoing. Item d, report was transmitted to EPA separately on 12/7/17.</p>
	8. Concentrated Animal Feeding Operations (CAFOs) (ongoing Don)	<ul style="list-style-type: none"> a. Continue to implement “Utah’s Strategy To Address Pollution From Animal Feeding Operations.” <ul style="list-style-type: none"> i. For all permitted CAFOs, if available, enter permit facility data, and permit event data into ICIS. <p>STATUS: There are currently no permitted CAFOs.</p> <ul style="list-style-type: none"> b. Inform EPA of animal feeding operations that are impacting water quality annually <p>STATUS: Four enforcement actions were taken in FY17 due to discharges from CAFOs: Miller Brothers Feed Lot, Griffin Dairy, Van Tassel Feed Lot and Larkin Dairy. EPA was cc'd on all enforcement correspondence.</p>

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EPA Goals and Objectives	DWQ Goals and Measures
	<p>c. Conduct and/or participate in meetings of the AFO/CAFO committee and maintain critical partnerships with NRCS, UACD, the Farm Bureau and the agricultural community. STATUS: DWQ staff participated in regular outreach meetings with UDAF and members of the CAFO committee. Note: UACD has merged with UDAF.</p> <p>i. EPA will provide CAFO rule development updates, to keep DWQ informed.</p> <p>d. Maintain an inventory of all permitted CAFOs and unpermitted CAFOs during FY2017. Provide the inventory to the EPA upon request. STATUS: There are currently no permitted CAFOs. DWQ maintains an inventory of unpermitted large CAFOs.</p> <p>e. Continue to implement the new EPA 2012 CAFO rules in Utah within FY 2017. STATUS: Implementation of EPA's 2012 CAFO rules is ongoing.</p> <p>f. After rule revision and issuance of the next CAFO permit, Nutrient Management Plans for permitted CAFOs once approved, shall be tracked in ICIS. STATUS: There are currently no permitted CAFOs. There are no approved NMPs. DWQ plans to issue three CAFO permits to CAFOs who have discharged.</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
	9. Utah Sewer Management Program (USMP)	Continue to implement a comprehensive state-wide permit program for the planning, operation and maintenance of all public wastewater sewer collection systems. STATUS: The DWQ is continuing to implement the USMP. The general permit for sewer collection systems was renewed and became effective on December 1, 2017.
<p>EPA OBJECTIVE 2.1: Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters, including source waters.</p> <p>EPA OBJECTIVE 2.2: Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.</p>	UPDES ICIS Date	
	1. ICIS Data Management	<p>Ensure maintenance of information management systems sufficient to plan, track, assess, and make adjustments to program activities.</p> <p>a. Properly enter data into the ICIS data system such that the federally required data fields are current.)</p> <p>b. Provide to the maximum extent practicable the RIDE elements required. This depends on information that is obtainable with the permittee's cooperation and economic restraints.)</p> <p>c. ICIS data is entered accurately which includes permitting, compliance, and enforcement data.)</p> <p>d. Continue to report non-major facilities compliance data the same as majors through the ICIS data management system.)</p> <p>e. Track all inspections in ICIS.)</p> <p>f. Enter additional ICIS data, as listed in other parts of this document</p> <p>STATUS: For a, b, c, d, e & f above, all are completed and ongoing.</p>
<p>EPA OBJECTIVE 2.1: Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters, including source waters.</p>	UPDES Compliance Evaluations & Inspections	

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<p>EPA OBJECTIVE 2.2: Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.</p>	<p>1. Implement the Clean Water Act Action Plan</p>	<p>a. DWQ and EPA will work together to implement the Clean Water Act Action Plan to identify water quality issues of greatest concern for the State, and develop collaborative annual work plans to leverage both DWQ and EPA resources to address these issues. This will be accomplished through the Annual State/EPA UPDES Compliance Inspection Plan as approved for each fiscal year. DWQ and EPA will discuss progress toward meeting annual commitments at quarterly meetings.</p> <p>STATUS: Completed and ongoing with EPA.</p>
	<p>2. Annual State / EPA UPDES Compliance Inspection Plan</p>	<p>a. Coordinate inspection activities among programs and between the State and USEPA. Incorporate targeted USEPA national and regional priority sectors, as agreed upon between DWQ and USEPA. Consider planning inspections to complement timing and focus on watershed efforts. Inspections will be conducted in accordance with the mutually agreed to Annual State / EPA UPDES Compliance Inspection Plan (Inspection Plan), to the extent possible, incorporate the EPA NPDES Compliance and Monitoring Strategy (July 21, 2014).</p> <p>b. The Inspection Plan will include the universe of facilities subject to each CMS metric and number of compliance monitoring activities planned for the year.</p> <p>c. If the Inspection Plan commitments do not meet the inspection goals listed in the EPA NPDES Compliance and Monitoring Strategy, the Inspection Plan will include adequate detail for EPA to understand:</p> <ul style="list-style-type: none"> i. The overall approach proposed, including the rationale for any

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		<p>deviations and tradeoffs;</p> <p>ii. A description of the affected regulated universe(s); and An explanation of how DWQ has determined that the resulting reduced/modified attention at certain facilities will not have negative public health or environmental impacts. In addition, the Inspection Plan should include the details always expected in a CMS plan (e.g., universe of facilities subject to each CMS metric and number of compliance monitoring activities planned for the year).</p> <p>d. DWQ will submit a draft Inspection Plan for FY17 by August 1, 2016, and the final Inspection Plan by September 15, 2016 or within 15 of days of receiving EPA’s formal comments on the draft Inspection Plan if EPA comments are received later than August 31, 2016.</p> <p>e. EPA may determine the number of inspections conducted at end of year (September 30, 2016) by DWQ in each category above by pulling this information from ICIS. Any inspections performed on or before September 30, 2016, but which do not appear in ICIS by October 31, 2016, will not be counted in the end of year numbers.</p> <p>f. EPA Region 8 may conduct up to 4 oversight inspections with DWQ in FY17. Additional inspections EPA Region 8 may conduct are included in the agreed to the Inspection Plan. This includes inspections within EPA national and regional enforcement initiatives.</p> <p>g. Region 8 will ask DWQ to conduct single and/or multimedia inspections at federal</p>

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		<p>facility NPDES majors with recurrent effluent violations. Region 8 will conduct these inspections if DWQ does not plan to conduct the inspections. Region 8 will ask authorized states to work with EPA to target federal facilities for multimedia inspections. DWQ will be asked to lead the NPDES portion of a multimedia inspection at the selected federal facility. If DWQ does not want to conduct the inspection, EPA will conduct the inspection in lieu of the State.</p> <p>h. During FY17, EPA Region 8 may perform inspections at all Federal Facility construction sites that have been awarded contract dollars for site construction, in cooperation with DWQ inspectors.</p> <p>STATUS: Completed and ongoing with EPA for items a thru h above</p>
	3. Storm Water	<p>a. Continue implementation of MS4 permits which will ensure adequate sediment control inspections at local construction sites. This should increase the number of overall storm water inspections performed in the state. Encourage DWQ staff, District Engineers and municipal and county staff to assist with inspections as allowed by time and resource constraints.</p> <p>STATUS: Ongoing. Construction sites in MS4 jurisdictions are inspected monthly or bimonthly if priority by MS4 staff in accordance with permit requirements.</p>
<p>EPA OBJECTIVE 2.1: Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters, including source waters.</p> <p>EPA OBJECTIVE 2.2: Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and</p>	UPDES Enforcement	
	1. QNCR and ANCR	<p>a. During quarterly conference calls between EPA and DWQ, enforcement discussions will include the Quarterly Noncompliance Report</p>

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<p>wetlands on a watershed basis, and protect urban, coastal, and ocean waters.</p>		<p>for major facilities, Annual Noncompliance Report for minor facilities, and current and projected enforcement cases to address concerns early in the process.</p> <p>STATUS: Completed and ongoing.</p>
	<p>2. DWQ Enforcement</p>	<ul style="list-style-type: none"> a. EPA will identify and provide copies, if possible, of any policy or guidance documents used when evaluating the appropriateness of DWQ's enforcement actions. DWQ agrees to evaluate all violations and determine an appropriate response and take that action. b. DWQ will take timely and appropriate enforcement against facilities in Significant Non-compliance. c. DWQ will incorporate approved compliance schedules and deadlines into enforcement actions such that these schedules and deadlines are enforceable under the NOV/Order. d. As State resources allow, DWQ will work with EPA Region 8 to implement the National Wet Weather SNC Policy. e. Utah may submit an updated draft Enforcement Management System. EPA Region 8 will provide timely comments within 45 days of any submittal. f. DWQ will submit to EPA appropriate enforcement documents (NOVs/Orders, settlement agreements, etc.) upon request. g. A list of all completed enforcement actions including the name of the facility, type of action, penalty amount (if any), and type of facility shall be provided to the EPA with the EOY Report. The EPA may conduct a penalty review of a select number of actions, not to exceed ten. Upon request, DWQ will provide

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		<p>penalty calculations and all necessary background documentation to EPA for the selected enforcement actions, which will mainly focus in priority areas (e.g. cases in priority areas; MS4s, CAFOs, SSOs, and energy extraction). The EPA will provide written comments on any reviewed settlement documents and penalty calculations as part of the EOY Review.</p> <p>STATUS: Completed and ongoing for a thru g above. List requested in item g was sent to EPA in a separate transmittal on 12/7/17.</p>
	<p>3. Whole Effluent Toxicity (WET)</p>	<p>Assure proper and consistent enforcement of WET requirements in UPDES permits.</p> <p>a. Enforce UPDES permit WET limits and compliance schedule violations in accordance with the enforcement guidance contained in its February 15, 1991 "Permitting and Enforcement Guidance Document for Whole Effluent Toxicity Control," and any subsequent revisions.</p> <p>b. DWQ will submit as part of their FY2016 EOY report: a list of the facilities which are required to have WET limits or WET monitoring, a list of facilities that have entered into a TIE/TRE during FY16, and a list of any formal enforcement actions which included WET violations.</p> <p>STATUS: Item a is completed and ongoing. For item b, the requested list of facilities which are required to have WET limits/monitoring was sent to EPA under a separate transmittal on 12/7/17. No formal enforcement actions taken in FY16 included WET violations.</p>

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	4. EPA Enforcement	<p>a. DWQ understands that EPA Region 8 will continue to participate in and to initiate regional and national enforcement cases. In cooperation with DWQ, EPA Region 8 may perform inspections in regional and national priority areas according to national guidance. EPA may conduct inspections and issue enforcement actions as appropriate and will promptly advise, consult with, and coordinate with DWQ prior to such activity.</p> <p>b. Region 8 agrees to coordinate with and appropriately notify DWQ when it conducts any inspections and investigations.</p>
	5. 404 Enforcement Actions	<p>a. EPA Region 8 will take the lead on 404 enforcement actions that have associated 402 violations, except where EPA determines combined cases may not be in the best interest of litigation.</p>
	TMDL WATERSHED	
<p><u>EPA OBJECTIVE 2.2:</u> Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and wetlands on a watershed basis.</p>	<p>1. Accomplish an effective program for completion and implementation of TMDLs.</p> <p>Participate in calls and meetings with EPA to develop the Program Vision prioritization strategy, efforts to address the other 303(d) Vision goals, and progress in developing FY17 TMDLs and TMDL alternatives.</p>	<p>a. Identify extent of priority areas that are addressed by EPA-approved TMDLs or alternative restoration approaches for impaired waters that will achieve water quality standards. These areas may also include protection approaches for unimpaired waters to maintain water quality standards. Our commitment for FY 2017 is 25% based on the submission of the Nine Mile Creek TMDL for Temperature.</p> <p>STATUS: Nine Mile Creek TMDL completed and approved in FY 2017</p> <p>b. Identify the State-wide extent of activities leading to completed TMDLs or alternative restoration approaches for impaired waters,</p>

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		<p>or protection approaches for unimpaired waters. This is an indicator measure and does not require annual commitments.</p> <p>STATUS: Impaired waters identified for alternative approaches to TMDL development have been identified in the 303(d) Vision document in addition to protection approaches for unimpaired waters.</p> <p>c. Submit a list of ongoing or planned TMDLs that will be completed in FY17 to EPA on November 1st of each year.</p> <p>STATUS: Complete</p>
	<p>2. Implement a prioritization strategy under the 303(d) Vision that will be used to identify</p>	<p>a. A list of priority waters slated for near term (~2 year) TMDL development or alternative approaches;</p> <p>b. A list of priority waters scheduled for likely TMDL development or alternative or approaches over the 2016 – 2022 period;</p> <p>c. A list of priority waters awaiting management to protect their current condition from degradation during 2016 – 2022 (optional); and</p> <p>d. The strategic rationale of the State in setting these priorities.</p> <p>STATUS: Utah’s prioritization strategy has been finalized and presented in multiple public forums for review and input. The strategy is has been included in Utah’s 2016 Integrated Report.</p>
	<p>3. Monitor implementation activities for completed TMDLs on a watershed basis through submission of annual reports by local watershed coordinators on August 31 of each year.</p> <p>STATUS: TMDL implementation tracking is ongoing by DWQ TMDL coordinators. Information on implementation activities is provided from several sources including 319 funded Local Watershed Coordinators, partner agencies such as the Utah Dept. of Natural Resources, Utah Dept. of Agriculture and Food, and NRCS’ EQIP funding.</p>	

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	<p>4. Maintain sound fiscal management of contracts by tracking contract amount, expenditures to date and availability of funds to meet contractual obligations via quarterly reports. STATUS: Contract tracking is ongoing. Responsible staff coordinate on a regular basis to ensure sufficient funding is available to complete required work.</p> <p>5. Implement the Watershed Approach to effectively and efficiently support the development and implementation of TMDLs in Utah for impaired waters according to the approved 303(d) list. STATUS: Section Staff are actively implementing the watershed approach throughout the State in support of TMDL implementation and development activities. Focus areas for TMDL implementation in 2017 took place in the Bear River Watershed Management Unit (WMU). The targeted basin for 2018 is in the Weber River WMU. Current focus areas for TMDL development include finalizing the North Fork Virgin River study for E. coli, Silver Creek for TDS, and Provo River for Al, Zn, As, DO, and E. coli.</p>
	<p>6. Continue to implement the Nonpoint Source Program based on strong State and local institutional capabilities using the Watershed Approach in support of TMDL development.</p> <p>a. Conduct a comprehensive NPS program review preceding the update of the NPS Management Plan every five years beginning 2018. The next comprehensive review is due in 2017. STATUS: Ongoing, the plan is slated for update completion in 2018.</p> <p>b. Update GRTS annually by entering annual progress report information according to December 31st deadlines. STATUS: This task is ongoing and on schedule. The GRTS entry is being performed by Jim Bowcutt, DWQ's NPS Coordinator.</p> <p>c. Submit NPS Annual Report by January 31 of each year. STATUS: This task is ongoing and on schedule. Highlights from The NPS Annual report will be included in DEQ's State of the Environmental Report provided to local and state policy makers.</p>

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	<p>d. Foster program integration and interagency technical and financial assistance through participation on statewide partnership committees including: The Water Quality Task Force, the State Technical Advisory Committee, and the Utah Conservation Commission.</p> <p>STATUS: This task is ongoing. Quarterly Task Force meetings were held in 2017, and DWQ representation was present at each State Technical Advisory Committee meeting and Conservation Commission meeting, including several presentations on Utah's NPS and TMDL programs. In 2017 the Inter-agency NPS Program MOU was reviewed by members of the Water Quality Taskforce and signed by all parties.</p> <p>e. Obtain 319 project final reports from project sponsors and coordinate with EPA to obtain concurrence for grant closure in a 5 year time frame.</p> <p>STATUS: Closure of the FY-11 NPS grant was completed, and the process of closing the FY-12 and FY-13 funds has begun.</p> <p>f. Implement best management practices appropriately and effectively and achieve natural resource improvements for 319 NPS Watershed Projects. Obtain available information of reductions in nonpoint source loadings for sediments, nitrogen and phosphorus, and improvements in water quality. Report load reduction and water quality information in project annual reports (GRTS), project final reports and NPS Program annual report.</p>

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	<p>STATUS: This task is ongoing. Information is included in project final reports, in annual project evaluation reports, reported in the GRTS database and summarized in the NPS Program Annual Report.</p> <p>g. Report the number of waterbodies identified (in 2000 or subsequent years) as being primarily nonpoint source (NPS)-impaired that are partially or fully restored. Target for FY-2017 is 1 watershed .</p> <p>STATUS: A WQ 10 success story has been submitted for Chalk Creek.</p> <p>h. Report the number of priority NPS watershed areas where USDA EQIP funds are used to implement conservation projects. Report allocation of EQIP funds to 303(d) waters and approved TMDL watersheds.</p> <p>STATUS: These data have been requested from NRCS and will be reported in the 2017 NPS Program Annual Report. In 2017 Water Quality Initiative funding was allocated to the Chalk Creek watershed and Upper Sevier River watersheds.</p> <p>i. Report the number of priority watershed coordinator positions developed and functioning according to DWQ contract work plans.</p> <p>STATUS: Seven local watershed coordinator positions are in place and functioning with contracts with DWQ. The Jordan River and Southeast Colorado coordinator positions are funded as part time / work share positions in cooperation with local sponsoring agencies. The remaining coordinator positions in the</p>

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	<p>Middle/Lower Bear River, Upper Weber River, San Pitch River, Upper Sevier River and Utah Lake / Provo River watersheds are funded as full time positions.</p>	
<p>GROUND WATER PROTECTION</p> <p>The Utah Department of Environmental Quality, Division of Water Quality (Utah DWQ) certifies that it maintains and implements an adequate Underground Injection Control (UIC) Program under Section 1422 of the Safe Drinking Water Act (1422 UIC Program) in conformance with federal and state laws, regulations, and conditions set forth in program authorization (delegation) documents. As long as the Utah DWQ maintains a 1422 UIC Program, the Regional Administrator of the United States Environmental Protection Agency (USEPA) Region 8 and the Director of the Utah DWQ agree this Agreement shall remain in effect, except as amended through mutual agreement. Grant dollars awarded by the USEPA may be used by the Utah DWQ to perform core program activities (40 CFR Parts 144 and 147) to adequately maintain its 1422 UIC Program, even when these activities are not specifically defined by goals, measures, and/or reporting requirements. The Utah DWQ agrees to conduct core program activities as described in and as evidenced by the submittal of the UIC Program narrative included in the EOY Report</p> <p>The USEPA agrees to provide the following support to the Utah 1422 UIC Program:</p> <ol style="list-style-type: none"> a. One annual midyear review of Utah 1422 UIC Program. b. Technical training, as appropriate and as funds allow. c. Seventy-five percent (maximum) of funds necessary to operate the core State 1422 UIC Program, assuming a federal budget funding level near or equal to the past three years. Should funding levels drop significantly, USEPA will review core program elements and provide appropriate revisions 		
<p>EPA OBJECTIVE 2.1 Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters,</p>	<ol style="list-style-type: none"> 1. Maintain an effective 1422 Underground Injection Control Program per agreement with the EPA 2. To protect Underground Sources of Drinking Water (USDWs) from contamination by maintaining and implementing an effective core program, the DWQ 1422 UIC Program agrees to: <ol style="list-style-type: none"> a. Evaluate the core program effectiveness as reported in the UIC Program narrative included in the EOY Report STATUS: FY2017 UIC Program Narrative included below. b. Enforce the 1999 Class V Rule regarding motor vehicle waste disposal wells (MVWDWs) and large capacity cesspools (LCCs). MVWDWs and LCCs are closed as they are identified. Priority is given to identifying these wells within groundwater-based source water protection zones as delineated by the Utah Division of Drinking Water, Source Water Protection Program. MVWDWs and LLCs identified, inspected and closed are included in the biannual submittal to the National UIC Database 	

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	<p>c. Identify and report the number and percent of Class I injection wells that are used to inject industrial, municipal, or hazardous waste wells that fail mechanical integrity and maximize the number that are returned to compliance within 180 days, thereby reducing the potential to endanger USDWs.</p> <p style="padding-left: 40px;">i. The reporting requirements for this metric shall be fulfilled by the biannual submittal to the National UIC Database.</p> <p>d. Identify and report the number and percent of Class III injection wells that are used for salt solution mining that lose mechanical integrity and maximize the number that are returned to compliance within 180 days, thereby reducing the potential to endanger USDWs.</p> <p style="padding-left: 40px;">i. The reporting requirement for this metric shall be fulfilled by the biannual submittal to the National UIC Database.</p> <p>e. Identify and report the number of Class V motor vehicle waste disposal (MVWD) wells and large capacity cesspools that are closed or permitted in sensitive ground water protection areas* and maximize the number that are closed or permitted thereby reducing the potential to endanger underground sources of drinking water.</p> <p style="padding-left: 40px;">i. The reporting requirement for this metric shall be fulfilled by the biannual submittal to the National UIC Database.</p> <p style="padding-left: 80px;">ii. Although Utah has not formally delineated "other sensitive ground water areas" throughout the state as defined by the December 7, 1999 final rule, the 1422 UIC Program will continue to prioritize the identification, reporting, and return-to-compliance of MVWDW and other high priority wells within Source Water Protection Zones and other areas, although not formally delineated, where risk to human health and vulnerability to ground water contamination is recognized.</p> <p>f. Ensure Utah UIC Program monitoring activities are performed according to the DEQ/QMP Approved QAPP.</p>	
	<p>3. Encourage responsible environmental behavior and promote excellence in environmental quality through environmental education, community-based partnerships and qualitative and quantitative feedback from regulated and non-regulated customers.</p>	<p>a. Provide a description of presentations to local government groups, local health departments, public works departments, private sector groups, civil groups, etc. which include UIC concerns and opportunity for feedback. STATUS: Reported in the FY 2017 UIC Program Narrative below.</p> <p>b. Provide a description of all outreach activities intended to inform local government groups, local health departments, public works departments, private sector groups, civil</p>

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		<p>groups, etc. about the 1999 Class V rule regarding the closure of motor vehicle waste disposal wells (MVWDWs), large capacity cesspools (LCCs) and any other outreach activities intended to inform the public and the regulated community about UIC Program requirements.</p> <p>STATUS: Reported in the FY 2017 UIC Program Narrative below.</p>
	<p>4. Electronic Submittal to the National UIC Database</p>	<p>a. Utah DWQ currently maintains the 1422 UIC Program's geodatabase with ArcGIS Desktop. All reporting elements previously submitted on the 7520 forms and the online PAM tool will now be submitted biannually through electronic submittal of the Utah UIC Geodatabase to the National UIC Database. Biannual submittals were made on May 9 and October 18.</p>
<p>STATUS: Utah continues to implement an effective 1422 UIC Program. Following are summaries of FY 2017 activities: <i>The following describes UIC activity for federal FY2017 organized by UIC well class:</i></p> <p>Class I <i>There are currently no Class I wells in Utah nor has there been any interest expressed in permitting any during this time period.</i></p> <p>Class III <i>INTREPID POTASH - Woody Campbell worked with Intrepid to schedule and witness the 5 year MITs in early FY 2018 (November and December). No new wells were planned or drilled during this time period.</i></p> <p>NGLEP DBA SAWTOOTH NGL CAVERNS – Sawtooth currently operates CW #5, 6, 7, 8, and 9 with future plans for CW #10, 11, and 12. A minor modification of the Class III permit was issued in November 2016 to make corrections in the 2015 permit which was issued after the acquisition of the NGL caverns from Magnum, to add a requirement for assessing the nature of anomalous zones in the salt body, to add an addendum to the Construction and Cavern Development Plan to provide more detail regarding cavern enlargement by fresh water displacement of product. Another permit modification was issued at the end of FY2017 to expand the list of conditions that may require additional geomechanical analysis and reassessment and to align the language in the Magnum (see below) permit with that in the Sawtooth permit.</p> <p>MAGNUM SOLUTION MINING – A major permit modification was issued at the end of October 2017 to:</p> <ol style="list-style-type: none"> 1. to increase the size of the permit area, 		

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<ol style="list-style-type: none"> 2. <i>to address the addition of several different types of products that will be stored in different types of caverns (pressurized and brine-compensated),</i> 3. <i>to address ongoing regulatory oversight of CAES caverns during active operation after cavern development is complete,</i> 4. <i>to address the development of product-specific Construction and Cavern Development Plans and Monitoring, Recording, and Reporting Plans prior to receiving authorization to drill,</i> 5. <i>to include a requirement for submitting a CAES cavern closure plan and financial assurance for closure to the Director,</i> 6. <i>to change language referring to several included standards documents,</i> 7. <i>to include requirement for maintaining appropriate S:D and P:D ratios where S, P, and D refer to the distance between the centers of two caverns or between a cavern and the edge of the salt body, the minimum pillar thickness between adjacent caverns, and the average of the maximum diameter of the two caverns, respectively.</i> 	<p>PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION (PHMSA), DEPARTMENT OF TRANSPORTATION (DOT) INTERIM FINAL RULE <i>Although requirements for such are not included in Magnum’s permit, any caverns to be used for natural gas storage shall comply with the Pipeline and Hazardous Materials Safety Administration (PHMSA), Department of Transportation (DOT) Interim Final Rule (IFR) dated 19 December 2016 for the Safety of Underground Natural Gas Storage Facilities. The IFR became effective on 19 January 2017. The Magnum natural gas caverns will be connected to an INTERstate natural gas pipeline therefore the federal PHMSA will be implementing the IFR not the Utah Pipeline Safety section of the Department of Commerce, Division of Public Utilities.</i></p> <p><i>From conversations with Byron Coy of the US DOT, PHMSA will not issue permits under the IFR rather there will be a facility assessment according to 49 CFR 192.12 (f) to ensure the requirements and recommendations of API Recommended Practice 1170 are implemented.</i></p> <p>JOINT WEBINAR BY NATIONAL ASSOCIATION OF REGULATORY UTILITY COMMISSIONERS (NARUC) AND THE DEPARTMENT OF ENERGY (DOE) <i>On 28 March 2017 Candace participated in the National Association of Regulatory Utility Commissioners (NARUC) and the Department of Energy (DOE) webinar on the Aliso Canyon interagency task force report and issues related to underground gas storage. Speakers included Dr. James Bradbury, Dr. Grant Bromhal, and Dr. David Meyer from DOE as well as Alan Mayberry, Byron Coy, and Zach Barrett from PHMSA. Participants from both agencies covered a brief introduction to natural gas storage regulation; specifics of the Aliso Canyon leak and response; implications for electric system reliability and the gas/electric market; recommendations to advance well integrity, health and environmental protection, and gas/electric reliability; and the status of PHMSA’s December 2016 interim final rule revising federal pipeline safety regulations.</i></p> <p>SENNEN POTASH– <i>Sennen did not pursue a Class III permit. The stratigraphic test well was ordered to be plugged and abandoned by DOGM.</i></p> <p>PINNACLE POTASH INTERNATIONAL (PPI)– <i>PPI requested that several of their stratigraphic test wells be allowed to be converted to Class III solution mining wells. After a review of the construction data for the stratigraphic test well, it was determined that Class III construction requirements had not been met and conversion was denied. The test wells were ordered to be plugged and abandoned by DOGM.</i></p> <p>LISBON VALLEY MINING COMPANY (LVMC)– <i>In late September 2016, several members of the ground water protection section toured the LVMC mining operations and processing facilities. We briefly discussed in-situ recovery (ISR) of copper but until the price of copper increases LVMC will not be pursuing this mining option. On 17 March 2017, Lantz Indergard reported that LVMC is</i></p>

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<p><i>conducting pre-feasibility work for ISR including the development of a robust internal geophysical survey capacity which was demonstrated to Woody and Wynn during their recent trip to SE Utah.</i></p> <p>Class IV <i>No activity.</i></p> <p>Class V <i>The following describes Class V well activities according to Class V well subclass. Unless otherwise noted, all activity was performed by Brianna Ariotti.</i></p> <p>GENERAL <i>Rural Water Association of Utah (RWAU) – At the end of February, Brianna presented an overview of the UIC Class V Program at their annual conference.</i> <i>Washington County Water Conservation District Water Fair – May 10-11, 2017 – Brianna presents annually at this fair.</i></p> <p>MOTOR VEHICLE WASTE DISPOSAL WELLS <i>Golden Spike National Historic Site – Renewed permit on October 5, 2016. The permit term was changed from 5 years to 10 years. Annual inspection is to be done in April/May.</i> <i>Clegg’s Car Care, Orem - This is an automobile maintenance and repair shop that we were notified of by the Division of Environmental Response and Remediation. They have been involved regarding cleanup and remediation activities for UST removals and closures. They alerted us to several floor drains in the service bays that are believed to discharge to the subsurface onsite. Inspection is being scheduled for April to talk to the owners and discuss closure options. During the inspection we learned that the property was up for sale and that the plans were to raze the property for development. As of October 30, 2017 the property had not been sold. The owners were notified of the requirement to close the MVWD wells. If the property has not been sold by December 1, 2017 DWQ will commence enforcement action against this facility.</i> <i>REVISION OF UTAH AMENDMENT TO INTERNATIONAL PLUMBING CODE – Brianna Ariotti - The Uniform Building Code Commission approved our proposed amendment that addresses the 1999 ban of Motor Vehicle Waste Disposal Wells. The new amendment will be included in the 2018 edition of the Utah Plumbing Code. Our proposal was passed by the Business and Labor Interim Committee in September and will now go to the 2018 legislative session for approval. If passed it will be included in the amendments of the State Plumbing Code / Construction Code.</i></p> <p>STORM WATER DRAINAGE WELLS <i>Utah Storm Water Advisory Committee (USWAC) – Attend monthly meetings to give updates and information on the UIC Storm Water Program and to maintain a presence in the storm water management community.</i> <i>American Public Works Association (APWA) Storm Water Expo – October 11-12 attended the conference and presented a session on the UIC Storm Water Program.</i> <i>Clyde Companies – A building and construction company who requested an overview of the UIC Storm Water Program for all of their environmental managers.</i> <i>South Jordan City Letter of Violation (LOV) – South Jordan City notified us of unauthorized discharges going into their UIC storm water drains. They were issued a letter of violation and we are currently working with them to reclassify the wells as special drainage wells since the discharge now includes water from house foundation drains and surfacing ground water.</i></p> <p>LARGE CAPACITY SEPTIC SYSTEMS</p>	

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<p><i>Utah Onsite Wastewater Association Conference – Attended the conference and presented a session on how the UIC Program coordinates with the engineering section and their operating permits to get large onsite systems inventoried and authorized.</i></p> <p>SUBSURFACE ENVIRONMENTAL REMEDIATION WELLS <i>We continue to inventory and authorize subsurface environmental remediation wells.</i></p> <p>ENHANCED GEOTHERMAL SYSTEMS - CANDACE <i>The Department of Energy envisions Frontier Observatory for Research in Geothermal Energy (FORGE) as a dedicated site where scientists and engineers will be able to develop, test, and accelerate breakthroughs in enhanced geothermal system (EGS) technologies and techniques. The University of Utah’s Energy and Geoscience Institute (EGI) was awarded a Phase I grant for their Utah FORGE Project and was successfully downselected from a pool of 5 Phase I awardees to move to Phase 2 of DOE’s FORGE project along with one other project in Nevada. Phase II will involve drilling a test well to prove the geothermal resource necessary to proceed to Phase III. The Utah Division of Water Rights has the statutory and regulatory to administer the Utah Geothermal Resources Conservation Act and associated administrative rules. The Utah UIC Program is authorizing this project by rule with the condition that we be kept in the loop regarding project development. The Utah FORGE webpage is here: https://egi.utah.edu/forge/</i></p> <p>AQUIFER STORAGE & RECOVERY - CANDACE <i>Jordan Valley Water Conservancy District ASR – No activity to report for this time period.</i> <i>Brigham City Corporation ASR – No activity to report for this time period.</i> <i>Leamington Town ASR – John Chartier, DEQ District Engineer, is planning to visit the Leamington Well before the end of March. Candace has asked that he inquire about any progress they have made in implementing their ASR program.</i> <i>Millville ASR – Paul Inkenbrandt of the Utah Geological Survey has just completed a report entitled Aquifer Storage and Recovery in Millville, Cache County, Utah which is available online at: http://ugspub.nr.utah.gov/publications/reports_of_investigations/ri-275.pdf . Paul told the City of Millville that he would work with their engineers to prepare the applications for the ASR projects but that the city “needed to collaborate with the DEQ on how to take action on their septic issues.”</i> <i>Coalville ASR – According to Paul, this project has been dropped entirely “because Icy Spring (proposed injection source) was flagged for surface influence by the Division of Drinking Water”.</i></p> <p>Class VI HUNTER POWER PLANT CARBONSAFE PROJECT – Candace – <i>The University of Utah Energy and Geoscience Institute (EGI) was awarded a grant for a Phase I CarbonSAFE project. The grant was awarded under the Office of Fossil Energy of the US Department of Energy (DOE) Funding Opportunity Announcement entitled Integrated CCS Pre-Feasibility the focus of which is on the initial phase of development of the commercial-scale CO2 storage site. Goals of this phase include (1) formation of a team capable of addressing technical and non-technical challenges specific to commercial-scale deployment of the CO2 storage project; (2) development of a plan encompassing technical requirements as well as both economic feasibility and public acceptance of an eventual storage project; and (3) high-level technical evaluations of the sub-basin and potential CO2 source(s). DWQ (Candace) was asked to serve as the UIC consultant for the project to assist in the following subtasks:</i></p> <ul style="list-style-type: none"> • <i>Subtask 2.1.1 - In collaboration with other team members, assist in identifying full complement of state and local regulatory / legal / legislative issues (barriers), including UIC regulations.</i> 	

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<ul style="list-style-type: none"> • <i>Subtask 2.1.2 - In collaboration with other team members, assist in identifying gaps in federal, state and local legal requirements that may pose barriers to project deployment, including uncertainty regarding leasing rules for federal or state owned pore space.</i> • <i>Subtask 2.2.6 - In collaboration with other team members, assist in documenting details of strategy for securing any necessary surface and pore space rights.</i> • <i>Subtask 2.2.7 - In collaboration with other team members, assist in documenting details of state incentives/policies toward project economics (long-term liability, tax incentives, rate base recovery, etc.) and public acceptance.</i> <p><i>The Office of Fossil Energy of the US Department of Energy has developed the following schedule to develop an integrated carbon capture and storage complex constructed and permitted for operation in the 2025 timeframe over a series of sequential phases of development:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"><i>Phase I</i></td> <td style="width: 45%;"><i>Integrated CCS Pre-Feasibility</i></td> <td style="width: 40%;"><i>(Duration: 18 months)</i></td> </tr> <tr> <td><i>Phase II</i></td> <td><i>Storage Complex Feasibility</i></td> <td><i>(Duration: 2 years)</i></td> </tr> <tr> <td><i>Phase III</i></td> <td><i>Site Characterization</i></td> <td><i>(Estimated Duration: 2 years)</i></td> </tr> <tr> <td><i>Phase IV</i></td> <td><i>Permitting and Construction</i></td> <td><i>(Estimated Duration: 3.5 years)</i></td> </tr> </table> <p><i>See the attached extract from the funding opportunity announcement describing the tasks DOE expects to be completed during each phase of the CarbonSAFE project. Judging from this schedule and the description of tasks from the FOA, it does not look like EPA will be receiving an application for at least 4 years possibly longer.</i></p> <p><i>To date, Candace has prepared an extensive spreadsheet detailing all Class VI requirements. She has also prepared a PowerPoint presentation detailing the salient parts of EPA's Class VI Site Characterization Guidance and is preparing a similar PowerPoint for the Area of Review (AoR) Evaluation Guidance. These documents were prepared to assist other CarbonSAFE team members in becoming aware of important UIC concepts, definitions, and, especially, the requirements of the Class VI rule.</i></p> <p>Data Management</p> <p><i>The Utah Automated Geographic Reference Center (AGRC) provided the following narrative describing their progress in improving the data entry process for the Utah UIC Geodatabase and for ensuring adherence to QA/QC protocols:</i></p> <p><i>'The desktop editing environment continues to progress. We have decided that ArcGIS Pro is the best platform for it. We have created user input forms which abstract the complexity of the database. The environment leads a user through the steps they must follow for a complete record in the database and enforces a QA/QC process upon data entry. It is a list that highlights to green as entry of the various sections is complete. To create this data entry QA/QC framework was a challenge as the development framework for ArcGIS Pro is complex. We expect to move forward by engaging the users and adjusting the data entry, and editing User Interface.'</i></p>		<i>Phase I</i>	<i>Integrated CCS Pre-Feasibility</i>	<i>(Duration: 18 months)</i>	<i>Phase II</i>	<i>Storage Complex Feasibility</i>	<i>(Duration: 2 years)</i>	<i>Phase III</i>	<i>Site Characterization</i>	<i>(Estimated Duration: 2 years)</i>	<i>Phase IV</i>	<i>Permitting and Construction</i>	<i>(Estimated Duration: 3.5 years)</i>
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EPA Goals and Objectives	DWQ Goals and Measures	
	<p>5. Continue administration of a comprehensive ground water protection program according to priorities established in Utah Ground Water Protection Strategy and the annual FY16 Division of Water Quality/Goals and Objectives.</p>	<p>a. End-of-year report as required by EPA grant on achievement of FY16 DWQ/Ground Water Program Goals and Objectives.</p> <p>b. Continue participation in the Ground Water Protection Council National Ground Water Strategy Committee with EPA Headquarters, Regions, and States. The intent is to help EPA develop a national strategy for refocusing EPA and States efforts on ground-water protection.</p>
<p>EPA OBJECTIVE 2.1: Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters, including sources waters.</p> <p>EPA OBJECTIVE 2.2: Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.</p>	STANDARDS AND TECHNICAL SERVICES	
	<p>1. Maintain Water Quality Standards as the basis for effective water quality management and assessment programs.</p>	<p>a. Continue to review and compile a list of potential water quality standards to be included in the upcoming 2017 triennial review, including: nutrient criteria, appropriate modifications to Great Salt Lake standards, and new or revised 304 (a) criteria recommendations.</p> <p>STATUS: State rule-making is in progress to adopt revisions to Utah’s water quality standards as part of the 2017 triennial review. Response to public comments were prepared and presented to the Water Quality Board on December 4, 2017.</p> <p>b. Continue to collaborate with the water quality standards workgroup(s) of stakeholders and partners on continued WQS revisions.</p> <p>STATUS: Utah’s Water Quality Standards Workgroup met on January 23, April 17, July 17 and October 16, 2017 to discuss potential revisions to Utah’s water quality standards and other pertinent guidance.</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>c. Develop and publicize a plan for implementing tissue-based criteria (i.e., updated selenium criteria when promulgated). STATUS: DWQ has compiled selenium concentration data statewide and has reviewed the Selenium implementation guidance.</p> <p>d. Evaluate Utah waters for the historical presence of mollusks in preparation for adoption of Utah ammonia criteria based on EPA's 2013 ammonia criteria. STATUS: DWQ in partnership with the State of Colorado worked with researchers from Utah State University who conducted a literature survey of the presence of mollusks in both Utah and Colorado. Response to public comments on the final report and database were prepared.</p> <p>e. Pending promulgation of new EPA rules on water quality standards variance policies, develop associated guidance for the utilization of variances with UPDES and other permitting programs. STATUS: Utah is the final stages of policy and guidance development for variances including benchmarking with other states in light of the new EPA rules.</p>
	<p>2. Development of rules, policies, and procedures to ensure protection of Great Salt Lake and its surrounding wetlands.</p>	<p>a. Continue to update and revise as necessary the Great Salt Lake Water Quality Strategy, Core Components 1 and 2. STATUS: Implementation activities per Great Salt Lake's Water Quality Strategy, Core</p>

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	<p>Components 1 and 2 include: application of the interim guidance to UPDES permit renewals for Great Salt Lake dischargers, water quality sampling and analysis of GSL bays and working with TRE, Inc. to conduct acute toxicity testing of brine shrimp and brine flies for priority pollutants</p> <p>b. Continue to implement the Great Salt Lake Baseline Sampling Plan within the requirements of the Quality Assurance Program Plan. Update the QAPP as needed.</p> <p>STATUS: Water quality and brine shrimp samples were collected twice (June and October) in Gilbert, Farmington and Bear River Bays as outlined in the Great Salt Lake Baseline Sampling Plan following the GSL QAPP guidelines.</p> <p>c. Continue numerous efforts to encourage collaboration among DWQs sister State and Federal agencies with related management responsibilities for GSL.</p> <p>STATUS: DWQ is an active partner in GSL related activities including regular attendance at the following meetings/conferences: Division of Forestry, Fire and State Lands GSL Technical Team, Division of Wildlife Resources GSL Ecosystem Program Technical Advisory Group and the legislative GSL Advisory Council. In addition, DWQ has actively coordinated and collaborated with governmental agencies for permitting responsibilities.</p> <p>d. Continue toxicological testing of brine shrimp and brine flies in support of numeric criteria</p>

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EPA Goals and Objectives	DWQ Goals and Measures
	<p>development for priority pollutants in GSL. STATUS: DWQ continues to work with the researchers (TRE, Inc., and Notre Dame University) to conduct the toxicological testing of brine shrimp and brine flies. In cooperation with an EPA workgroup. 2017 was spent developing the appropriate methods to conduct the acute toxicity tests including refining the matrix.</p> <p>e. Continue development of assessment of recreational and aquatic uses using the narrative standard for Farmington Bay STATUS: On-going. DWQ is compiling GSL nutrient research to date and building a stakeholder framework in preparation for a nutrient loading study to be included as part of Core Component 4 of the GSL Water Quality Strategy.</p> <p>f. Continue to collaborate with EPA on all major 401 water quality certifications in the Water of the U.S. with emphasis on expansion projects occurring in the Great Salt Lake Watershed including Compass Minerals, Kennecott Utah Copper, Union Pacific Railroad and West Davis Corridor. STATUS: On-going. DWQ has and will continue to collaborate on all major 401 water quality certifications.</p> <p>g. As resources allow, continue to develop and implement monitoring and assessment methods for GSL wetlands. STATUS: On-going.</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>h. Modify Utah's Water Quality Standards whenever appropriate to accommodate ongoing development of water quality programs for GSL.</p> <p>STATUS: DWQ received a FY16-17 EPA Region 8 Wetland Program Development Grant to develop water quality standards for GSL wetlands. Benchmarking with other states has been completed and Conservation Action Planning Workshops are in progress. The development of water quality standards for GSL bays is ongoing including acute and chronic toxicity testing of brine shrimp and brine flies for priority metals that would apply to Gilbert Bay and the development of recreational and aquatic life use assessment methods for nutrients in Farmington Bay.</p>
	<p>3. Development of numeric nutrient criteria and associated implementation procedures</p>	<p>a. Continue to incorporate nutrient-specific monitoring efforts into Utah's long-term monitoring strategy. Include plans for the ongoing measurement of nutrient-related ecological responses.</p> <p>STATUS: DWQ continues to measure both nutrients and ecological responses in lakes and streams statewide. Revisions to the field methods were made after a 2015 cooperative monitoring effort of headwater streams was conducted by DWQ, Utah Department of Agriculture and Food and the US Forest Service. An implementation plan that includes a nutrient-specific monitoring and assessment program is in development and will accompany the package that is submitted to EPA in support of forthcoming TN and TP criteria for headwater streams.</p> <p>b. Propose and promulgate numeric criteria for</p>

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		<p>Utah's headwater streams. Finalize the technical rationale reports that underpin these criteria.</p> <p>STATUS: A report that provides the underlying technical basis for headwater criteria is being updated post 2015 cooperative monitoring effort and will be submitted for an EPA peer review. Utah continues to work with EPA on finalization of this report and the proposal for headwater nutrient criteria. Formal recommendations are anticipated in mid-2018.</p> <p>c. Continue to develop numeric water quality indicators and/or criteria for phosphorous, nitrogen and associated ecological responses that have clear ties to recreation or aquatic life uses for Utah's waters.</p> <p>STATUS: DWQ's proposal for combined headwater nutrient criteria that includes numeric nutrient criteria and bioconfirmation criteria to protect aquatic life uses in headwater perennial streams was presented to Utah's nutrient core and technical team. Ecological Response parameters (bioconfirmation criteria) include filamentous algae cover, gross primary production and ecological respiration. DWQ will submit the technical documents that support the combined criteria for an EPA peer review and EPA approval.</p> <p>d. Evaluate the possibility of adopting, with appropriate modifications, any revised 304(a) nutrient criteria proposed by EPA.</p> <p>STATUS: in development.</p> <p>e. Continue to meet with Utah's Nutrient</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>Stakeholder Workgroups on outreach efforts in support of Utah's nutrient reduction strategy.</p> <p>STATUS: Utah continues work on outreach efforts. DWQ met with Utah's Technical and Core Nutrient Teams. Regular meetings occur with industrial, POTWs and NGO leaders who sit on the Core Nutrient Team. The Technical Team will conduct a final review of the technical basis for headwater nutrient criteria and an implementation plan that includes monitoring and assessment. Additional dialogue has occurred with several important stakeholder groups including the Utah Lake and Jordan River Commissions. DWQ has given numerous public presentations on various aspects of our Nutrient Reduction Program.</p> <p>f. Revise Utah's nutrient (TN and TP) reduction strategy, including a plan for the development and implementation of numeric nutrient criteria. STATUS: On-going.</p> <p>g. Continue to work with a focused stakeholder groups to on the development of nutrient criteria and associated implementation programs. STATUS: Utah continues work on outreach efforts. DWQ has met with Utah's Technical and Core Nutrient Teams. Regular meetings occur with industrial, POTWs and NGO leaders who sit on the Core Nutrient Team. The Technical Team will conduct a final review of the technical basis for headwater nutrient criteria and an implementation plan that</p>

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	<p>includes monitoring and assessment. Additional dialogue has occurred with several important stakeholder groups including the Utah Lake and Jordan River Commissions. DWQ has given numerous public presentations on various aspects of our Nutrient Reduction Program. A website (www.nutrients.utah.gov) specific to these water quality programs continues to be updated on a regular basis.</p> <p>h. Develop implementation processes and associated rules (i.e., variance policy, temporary modification) for a comprehensive nutrient reduction program. STATUS: Utah is working on several aspects of these rules in concert with the upcoming 2017 triennial review of water quality standards. As an adaptive management step, the nutrient strategy includes technology based limits for municipal dischargers. A Technology Based Phosphorous Effluent Limit that limits future TP discharges to 1 mg/l must be achieved by January 1, 2020 (UAC R317-1-3.3) and facility optimization to remove Total Inorganic Nitrogen was encouraged in rule.</p> <p>i. Continue to participate on TMDLs for nutrient-related impairments to ensure that, wherever possible, that the endpoint align with site-specific standard development. STATUS: Utah is working with the Nutrient Core Team to create a prioritization process for site specific standards. Nutrient related TMDLs were prioritized as part of the 303(d) vision process.</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
	<p>4. Develop and implement a long-term biological assessment program :</p>	<p>a. Maintain annual biological monitoring strategy that best balances the programmatic needs of stakeholders. Make the list of sites available for review and incorporated into the annual monitoring strategy. STATUS: Complete.</p> <p>b. Collect physical habitat, macroinvertebrate, and periphyton samples at ~74 streams annually to provide the data necessary to augment assessment tools and fulfill long-term (trend), natural variability (reference), restoration effectiveness, TMDL, 305(b), and 303(d) assessment needs. STATUS: Macroinvertebrate and periphyton data were collected as part of the UCASE program. Physical habitat collection was deferred in 2017 to revamp the database and SOPs.</p> <p>c. Continue to build capacity to digitize both field and biological data and store in a readily accessible database. Physical habitat database will emulate EPA design currently under construction. Create electronic field form linking collected data to database. STATUS: DWQ is restructuring the physical habitat database and is in the process of producing an electronic field form.</p> <p>d. Continue development of modeled diatom MMI and integrate into existing aquatic life assessments. STATUS: This project is temporarily on hold. UT diatom data are compiled, national metrics have been obtained (although dated) and the taxa list is mostly current.</p>

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		<p>e. Continue compiling an expanded reference water body (streams and rivers) dataset for future assessment tool development. STATUS: On-going.</p> <p>f. Continue development of assessment methods that better integrate biological and chemical assessment methods to provide an overall assessment of aquatic life beneficial use support for Utah's streams. STATUS: Project continually in progress. Both biological and chemical assessment methods have been updated for the 2018 IR.</p> <p>g. Continue development of outreach materials (i.e., website, fact sheets, reports) to more completely describe Utah's biological assessment program to our stakeholders. STATUS: Project continually in progress. Website design and layout has been established.</p>
	<p>5. Develop and implement a responsive Harmful Algal Bloom Program</p>	<p>a. Continue partnership development of outreach materials that communicate reporting blooms, avoiding risks, and HAB education STATUS: On-going. DWQ leads the HAB Communication Workgroup that meets monthly to discuss and develop outreach materials. The Workgroup is made up of response agencies including the Division of Drinking Water, Local Health Departments, Utah Department of Health, State Parks, Division of Wildlife Resources, Utah Poison Control Center, Department of Agriculture and Food and the Utah Water Watch.</p>

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	<p>b. Continue development of agency-wide strategic communication: response, education, messaging STATUS: On-going. DEQ's Communication Office is leading the effort to develop the communication, education and messaging including with the Public Information Officers from the Local Health Departments</p> <p>c. Update HAB guidance and SOP documents as necessary STATUS: DWQ and the Utah Department of Health updated the HAB Guidance and SOP documents in preparation for the 2017 HAB season and in response to the draft EPA recommended HAB criteria. The Guidance and SOP documents were presented to the Water Quality Health Advisory Panel and public comments were solicited. DWQ plans to review the guidance and SOPs on an annual basis.</p> <p>d. Improve bloom reporting info and tracking STATUS On-going and as resources allow</p> <p>e. Improve collection and reporting efficiency STATUS On-going and as resources allow</p> <p>f. Develop early-warning systems at high-risk waterbodies STATUS: DWQ installed early warning systems on 2 waterbodies that had extensive HABs and high recreational usage</p> <p>g. Update integrated report assessments related to HABs STATUS: HAB assessment methods were updated for the 2018 Integrated Report</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
<p>EPA OBJECTIVE 2.1: Reduce human exposure to contaminants in drinking water, fish and shellfish, and recreation waters, including sources waters.</p> <p>EPA OBJECTIVE 2.2: Protect and Restore Watershed and Aquatic Ecosystems. Protect the quality of rivers, lakes, streams and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.</p>	MONITORING AND REPORTING	
	1. Continue phase in of re-tooled monitoring program for DWQ according to established schedules. (WQ- 5)	
	2. Conduct Tier 1 (probabilistic), Tier 2 (targeted) and Tier 3 (programmatic) monitoring on a rotating basin schedule	<p>Tier 1 Monitoring: Probabilistic</p> <p>a. Augment reference site dataset and develop improvements to Probabilistic survey design. STATUS: Ongoing. Will continue efforts to coordinate with NARS program</p> <p>b. Finalize National Wetland Condition Assessment (Summer 2016) and National Lakes Assessment (Summer 2017) STATUS: Completed</p> <p>Tier 2 Monitoring: Targeted</p> <p>a. Complete intensive targeted monitoring in Uinta Basin Watershed STATUS: Completed</p> <p>Tier 3 Monitoring: Programmatic</p> <p>a. Continue to implement a statewide mercury in fish tissue monitoring component as part of the long-term monitoring strategy as funding is available. STATUS: Ongoing</p> <p>b. Utilize established workgroup to provide guidance and recommendations for the mercury monitoring program. STATUS: Ongoing</p> <p>c. Participate in the issuing of mercury fish consumption advisories as needed. STATUS: Ongoing</p> <p>d. Participate in triennial review preparations/discussion pertaining to Hg. STATUS: Completed</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>TMDL monitoring a. Discharge in large rivers STATUS: ongoing</p> <p>Surface Water Compliance a. Increased DMRs b. Continue to Implement QUAL2K model sampling for permit renewal and wasteload development STATUS: Ongoing</p> <p>NPS Effectiveness Monitoring a. Implement pilot study for Long-term monitoring stations to assess effects watershed restoration, long term trends and climate change and develop site specific sampling plans. STATUS: Ongoing</p> <p>E. coli cooperative monitoring a. Continue implementation of monitoring program for <i>E. coli</i> to facilitate more rigorous assessment of recreational beneficial uses STATUS: ongoing</p>
	<p>3. Fully implement quality assurance system for water quality division including QAPPs, SOPs, annual monitoring plans, and new documentation requirements for continuous monitoring.</p>	<p>a. Implement overhauled quality assurance system for water quality division i. New documentation requirements for continuous monitoring stations will be developed as part of the scoping and planning of pilot study STATUS: Complete ii. Develop and web post Annual Monitoring Plan to include schedule, site locations, monitoring activities, responsible entities, and special studies for meeting program</p>

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EPA Goals and Objectives	DWQ Goals and Measures	
		<p>objectives in the SMP. STATUS: Ongoing b. Training in revised SOPs and QAPPs STATUS: Ongoing</p>
	<p>4. Complete development and initiate roll-out of data management tools based on WQX, AQWMS, ATTAINS</p>	<p>a. Data management tool roll-out and deployment within water quality division i. AWQMS: Ongoing testing and use by partners. Database populated with up-to date datasets and system in place for periodic uploads to WQX STATUS: AWQMS is up and running and datasets are in process of updating WQX. b. Training STATUS: Ongoing</p>
	<p>5. Integrate monitoring strategy elements to full operating levels, including publication of final monitoring strategy and annual monitoring plan for public comment; ongoing maintenance of cooperative monitoring/statewide monitoring council, and monitoring-related website elements</p>	<p>a. Finalize monitoring strategy and place on website for public comment. STATUS: Ongoing b. Continue promotion, chairmanship and support of the Statewide Monitoring Council to facilitate coordination of monitoring activities and special studies by local state and federal agencies as well as researchers and volunteer monitoring groups and provide the following services to members: i. Equipment and supplies ii. Training iii. Data management STATUS: Ongoing for all c. Maintain water quality monitoring council website STATUS: Ongoing</p>
	<p>6. Finalize the Assessment Methodology for inclusion with the Integrated Report for final public comment Status: Ongoing</p>	
	<p>7. Complete 2018 Integrated Report analysis of water quality data for submission to EPA April 1, 2018</p>	<p>a. Work with Standards and Technical Services Section to develop Statewide Statistical Survey and Lakes Assessment Chapters. b. Integrate Public Comments into final Report</p>

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EPA Goals and Objectives	DWQ Goals and Measures
	<p>c. Work with EPA to populate reporting tools (ADB)</p> <p>d. Participate with EPA in ATTAINS development Pilot</p> <p>STATUS: Items a-d are completed and ongoing. DWQ underwent program evaluation of IR program and will develop a 2018/2020 IR.</p>

TABLE 1 –UIC REPORTING REQUIREMENTS

Due Date	Reporting Cycle	Report Required
May 15	Semi-Annual	Electronic submittal to UIC National Database for First and Second Federal Fiscal Year Quarters (October 1 through March 31)
November 15	Annual	Electronic submittal to UIC National Database for First, Second, Third, and Fourth Federal Fiscal Year Quarters (October 1 through September 30) Utah DEQ End of Year Report to EPA (EOY Report)
December 31	Annual	Final Financial Status Report (FSR)

**UDEQ EXECUTIVE DIRECTOR'S OFFICE
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EPA Goal and Objective EPA Measurement	UDEQ Goal	UDEQ Measure
Supports all Strategic Goals Cross-cutting Strategies: Strengthening Partnerships	ENVIRONMENT GOAL: Provide an environmental vision for Utah and provide leadership for sustainable environmental quality	
	1. Provide leadership, communicate the expectations, and provide support activities to ensure that divisions and offices work together to resolve problems and address issues.	a. Application of operating principles and strategic thinking b. Mid-year reviews on critical issues STATUS: DEQ leadership meets weekly to discuss and resolve issues. Where appropriate, cross-division problem solving groups look at issues. Operating principles were redone this past year
	2. Customers perceive that UDEQ programs are fair and protective of health and the environment	Coordinated focus on environmental implications STATUS: An ongoing focus of DEQ.
	3. Congressional and legislative goals are accomplished (get resources and laws we need)	a. 2017 Legislative and Budget priorities completed and distributed b. Coordinate with ECOS to ensure EPA budget is targeted to continue to fund core program needs STATUS: Accomplished – and an ongoing priority. DEQ is active in ECOS
	4. Targeted environmental programs and processes improved to meet needs of customers while still protecting environmental quality.	STATUS: Ongoing. Stakeholder engagement and feedback is a priority at all levels in the department.
Supports all Strategic Goals	STATE-BASED REGULATION OF ENVIRONMENTAL PROGRAMS GOAL: Administer environmental programs and priorities to reflect the unique conditions of Utah.	

**UDEQ EXECUTIVE DIRECTOR'S OFFICE
FY2017 END OF YEAR REPORT**

EPA Goal and Objective EPA Measurement	UDEQ Goal	UDEQ Measure
	Actively participate in State/EPA processes and ECOS efforts to reinforce federal/state partnerships and ensure support for state primacy efforts.	We provide leadership in ECOS and we work to strengthen the EPA/LHD working relationship. STATUS: DEQ Executive Leadership is active in ECOS. Leadership also meets in an annual partnership meeting and in a monthly Governance meeting with LHDs and participates in the Health Officer and CLEHA meetings.
Supports all Strategic Goals Cross-cutting Strategic Goal: Strengthening Partnerships	<p>PARTNERSHIP WITH FEDERAL, STATE, LOCAL AND TRIBAL GOVERNMENTS</p> <p>GOAL: Improve the effectiveness and efficiency of statewide delivery of environmental services by strengthening relationships with all levels of government.</p> <ol style="list-style-type: none"> 1. Advocate EPA-UDEQ-LHD partnership to address community issues. Local Health Departments/UDEQ Partnership Council. 2. Identify policy issues and work for solution. 3. Attend Local Health Officer and Environmental Health Administrators meetings to discuss UDEQ issues. Continue the Service Delivery Plan. 4. Promote understanding and actions which recognize the importance of implementing workable environmental programs at local level through local government. 	<p>a. Identification of priorities/problem solving (track actions).</p> <p>b. Local Health Departments/UDEQ Partnership Council meets on an as needed basis.</p> <p>c. Delivery plans are revised and used as the workplan for the UDEQ/LHD contracts.</p> <p>d. Priorities are identified by community-based partnerships</p> <p>STATUS: Accomplished and ongoing.</p>
Cross-cutting Strategies: Strengthening Partnerships	<p>VI. ENHANCE POLICYMAKERS' UNDERSTANDING OF ENVIROMENTAL ISSUES</p> <p>GOAL: Facilitate policymakers as proactive participants in shaping environmental policy</p>	

**UDEQ EXECUTIVE DIRECTOR'S OFFICE
FY2017 END OF YEAR REPORT**

EPA Goal and Objective EPA Measurement	UDEQ Goal	UDEQ Measure
	<p>1. Support efforts to apprise Governor's office, Legislators, elected officials, and Board members of important environmental policy issues.</p>	<p>a. Governor, Legislators, Elected Officials, and Board Members are apprised of important environmental policy issues. b. Relationships with policymakers are developed and understanding of environmental issues enhanced. c. Policy makers work with UDEQ in development and implementation of environmental policy issues. d. Policy makers' trust in UDEQ is developed and enhanced.</p> <p>STATUS: Accomplished and an ongoing priority.</p>

**UDEQ OFFICE OF SUPPORT SERVICES
FY2017 END OF YEAR REPORT**

EPA Goal and Objective EPA Measure	UDEQ Goal	UDEQ Measure
Cross-cutting Strategy: Expanding the Conversation on Environmentalism	I. ENVIRONMENT GOAL: Partner with the Department and Divisions in planning and policy initiatives 1. Provide planning support for UDEQ initiatives and, on request, to statewide initiatives.	a. Process for completion of FY2017 PPA is successfully coordinated and final document is submitted to EPA. b. Process for completion of End-of-Year Report for FY 2016 PPA is coordinated with Divisions and is submitted to EPA. STATUS: FY17 PPA was completed and signed. End of Year Report was submitted in December for the prior Fiscal Year.
Supports all Strategic Goals	II. CUSTOMER SERVICE GOAL: Operate as a customer-oriented agency by focusing on customer service, trust, and problem-solving through teamwork and partnership. <u>Auditor</u> 1. Perform internal and fee audits as assigned by the Audit Committee. 2. Provide financial assurance assistance to Divisions 3. Perform an annual review of the DEQ hourly fee for reasonableness. <u>Other Services</u> Coordinate all GRAMA requests received and ensure each is answered in the allotted 10-day period of time.	Goals are accomplished STATUS: Auditor position was vacant from June, 2016 through May 2017. It has been filled and work is progressing. Response to GRAMA requests averaged in the high 90s each month, relative to the 10 day goal.
Supports all Strategic Goals	III. STATE-BASED REGULATION OF ENVIRONMENTAL PROGRAMS GOAL: Take an active role to help influence and develop rules and programs that are consistent with and help Utah achieve its needs.	

**UDEQ OFFICE OF SUPPORT SERVICES
FY2017 END OF YEAR REPORT**

EPA Goal and Objective EPA Measure	UDEQ Goal	UDEQ Measure
	<u>OSS</u> Continue to provide the financial application for the Performance Partnership Grant.	Complete the PPG grant and all necessary amendments and changes within prescribed due dates.
Cross-cutting Strategy: Strengthening Partnerships	IV. PARTNERSHIP WITH FEDERAL, STATE, LOCAL AND TRIBAL GOVERNMENTS GOAL: Assist with ensuring effective delivery of environmental services through intergovernmental collaboration.	
	<u>Local Health Liaison</u> 1. Facilitate strong relationship between UDEQ and the Local Health Departments.	a. Participation in CLEHA, Local Health Officers' Association, Local Boards of Health, and UEHA meetings. b. Process for the one-year contracts is successfully coordinated and completed. d. Partnership and Governance meetings are effective and issues raised are tracked and resolved. STATUS: This process continues to be successfully implemented. DEQ participated either directly or indirect in Local Health meetings; contacts were negotiated and signed with all 13 LHDs. Governance is held on most months – with occasional cancellations due to lack of agenda items. The Partnership meeting was held in January, 2017.
Supports all Strategic Goals	V. EMPLOYEES GOAL: Fully utilize our major resource.	
	<u>Leadership Training</u>	1. Regular leadership-training classes are held.

**UDEQ OFFICE OF SUPPORT SERVICES
FY2017 END OF YEAR REPORT**

EPA Goal and Objective EPA Measure	UDEQ Goal	UDEQ Measure
	Support UDEQ leadership development initiative.	2. Follow-up activities in sections and branches are facilitated, as requested 3. Individual employees are coached, as requested. STATUS: This Goal was met. The following classes were offered in FY17: Work of Leaders (DiSC-based strategic planning); Verbal Judo, Technical Writing, Proofreading, Leading from a Position of Limited Power, Access Training, and Writing a Budgetary Business Case. In addition, two All Manager meetings were held. Followup training and individual coaching were available, on request.

UDEQ STATE INDOOR RADON GRANT FY2017 END OF YEAR REPORT

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
Goal 1: Improve Air Quality	Reduce Exposure to Indoor Air Pollution	Continue the fundamental activities regarding the EPA Radon Grant.	<p>1. Promote new home construction with radon resistant technology.</p>
			<p>a. Promote and distribute information about radon resistant building technology to builders throughout the state. Display radon information and distribute discounted test kit coupons at the 2016 Spring Home Builders Annual Conference. STATUS: Working with Builders to encourage building with RRNC.</p>
			<p>b. Conduct at least three educational training courses entitled, "Radon Resistant New Construction." The course will offer continuing education core credits by the Utah Department of Commerce, Division of Occupation and Professional Licensing (DOPL) and will be held throughout various areas of the state.</p>
			<p>c. Promote Radon Resistant New Construction by reaching out to Utah home builders through personal contacts, educational courses, advertising, and home show exhibits. STATUS: Working with Builders to encourage building with RRNC.</p>
			<p>d. Assist Utah Habitat for Humanity in its building projects by providing RRNC training. Assist Green and Healthy Homes with providing mitigation and RRNC training. STATUS: Promoted RRNC with Green and Healthy Homes and Habitat for Humanity.</p>
			<p>e. Recognize and acknowledge home builders who are building RRNC homes in Utah via the DRC website, public events, and/or at Radiation Control Board meetings. STATUS: Working with Builders to encourage building with RRNC.</p>
			<p>f. Respond to opportunities provided by national radon organizations such as the American Association of Radon Scientists and Technologists (AARST) and the Conference for Radiation Control Program Directors (CRCPD) to attend national radon meetings and submit</p>

**UDEQ STATE INDOOR RADON GRANT
FY2017 END OF YEAR REPORT**

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>comments on radon standards (RRNC 2.0). STATUS: Attended the yearly conference and am on the CRCPD E-25 Planning Committee for the National Radon Conference – CRCPD.</p>
			<p>2. Support disclosure, testing and mitigation in conjunction with Real Estate transfers.</p>
			<p>a. Conduct at least three educational training courses entitled, "Radon for the Real Estate Professional." The courses will offer continuing education core credits by the Utah Department of Commerce, Division of Real Estate (DRE) and will be held throughout various areas. STATUS: Conducted over 20 Real Estate Courses educating over 400 Realtors about Radon.</p>
			<p>b. Coordinate annual meetings for radon mitigators, measurement providers, and home inspectors to clarify EPA standards and protocols. STATUS: Held annual meeting with Radon Professionals – extremely effective meeting</p>
			<p>c. Recognize and acknowledge Realtors who are radon educated on the DRC website. STATUS: Recognized Realtors for taking course.</p>
			<p>3. Develop coalitions with local governments, partner affiliates and other radon risk reduction leaders.</p>
			<p>a. Continue working with Utah's 12 local Health Districts in promoting public outreach. Encourage area outreach activities such as disseminating information packets on radon, distributing radon test kit coupons, and conducting radon educational presentations, and testing radon levels in schools. STATUS: Working on a quarterly basis with local health districts on Radon Education.</p>
			<p>b. Continue working with the Huntsman Cancer Institute in raising awareness in the state. Outreach activities will include attending the 2017 University Health Care Be Well Utah Family Health Fair.</p>

**UDEQ STATE INDOOR RADON GRANT
FY2017 END OF YEAR REPORT**

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>STATUS: Successful in educating over 12,000 U of U guests/attendees</p>
			<p>c. Conduct outreach activities with the Utah Department of Health, Utah Cancer Action Network (UCAN), CanSAR, and the American Lung Association to promote radon awareness, radon testing, and mitigation. STATUS: Successful</p>
			<p>d. Provide assistance when requested by tribal organizations throughout Utah (specifically, the Piute tribe and the Shoshone tribe). STATUS: Successful</p>
			<p>e. Continue partnership with Intermountain Health Care (IHC) and other women/newborn centers by supplying hospitals with newborn radon packet information, which started December 2003 (FY04) STATUS: Working with 13 hospitals to supply radon education and free radon test kits.</p>
			<p>f. Develop coalition with the Green and Healthy Homes Initiative (GHHI) Salt Lake Coalition to do radon testing in unhealthy homes throughout Salt Lake County. STATUS: Successful</p>
			<p>g. Provide radon education to the public through the National Radon Poster Contest, National Radon Action Month activities, DRC website, press releases, media appearances and advertisements, Governor's Declaration, school science projects, and scout eagle projects. STATUS: Received over 400 Radon Posters for the poster contest.</p>
			<p>h. Promote state radon legislation as opportunities arise.</p>
			<p>4. Determine (track) and measure results with respect to awareness levels, testing frequency, mitigation, and radon resistant new construction.</p>
			<p>a. Continue to track local and national media articles about radon and the health hazard associated with exposure to elevated levels. STATUS: Successful</p>

UDEQ STATE INDOOR RADON GRANT FY2017 END OF YEAR REPORT

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>b. Continue to track educational opportunities to reach out to the general public, real estate professional, and homebuilders (see measures 1-2). STATUS: Completed</p> <p>c. Continue to track phone calls, visits on the DEQ Radon website (www.radon.utah.gov), and email inquiries. STATUS: Completed</p> <p>d. Continue to track and report the number of homes tested for radon by currently listed radon measurement service providers, mitigation providers, and laboratories. STATUS: Completed</p> <p>e. Continue to track and provide annual reports of the number of homes built with RRNC, based on information provided by local home builders. STATUS: Completed</p> <p>f. Continue to track free radon test kit orders that come through the IHC newborn radon packets. STATUS: Completed</p> <p>g. Continue to track the number of homes mitigated quarterly by radon mitigation service providers. STATUS: Completed</p> <p>5. Testing and, where necessary, mitigating schools for radon and radon decay progeny.</p> <p>a. Educate School District Administrators about the health hazard associated with exposure to radon and promote radon testing in schools.</p> <p>b. Provide discounted radon test kits to school districts for testing, as requested.</p>
			<p>c. Continue assisting school districts with education and radon testing programs.</p> <p>d. Solicit school districts to participate in National sponsored "Radon in Schools" Webinars. STATUS: a-d have all been completed successfully</p>

**UDEQ OFFICE OF PLANNING AND PUBLIC AFFAIRS
POLLUTION PREVENTION AND STAKEHOLDER INVOLVEMENT
FY2017 END OF YEAR REPORT**

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
Cross-cutting Strategy: Working Toward a Sustainable Future		ENVIRONMENT	
		<p>GOAL #1: Partner with the Department and Divisions in planning and policy initiatives.</p> <p>1. Provide public affairs support for UDEQ initiatives and, on request, to statewide initiatives.</p>	<p>As opportunities arise, UDEQ is represented in meetings and information is coordinated through appropriate Department channels.</p> <p>a. Assistance is provided in developing strategies to identify issues and encourage stakeholder participation. Informational and outreach support is provided.</p> <p>STATUS: PPA and End of Year Reports were coordinated with EPA and submitted. Local Health Department contracts were coordinated and signed.</p>
Goal 4.2 Promote Pollution Prevention	Prevent Pollution and Promote Environmental Stewardship	<p>GOAL #2: Facilitate integration of Pollution Prevention initiatives in UDEQ and throughout the State.</p> <p>Pollution Prevention Objectives:</p> <p>1. Improve environmental performance through adoption of sustainable practices that can be encouraged through the use of Environmental Management Systems (EMS), showcased through Clean Utah and shared with others on UDEQ websites. Promote P2 through award recognition in addition to Clean Utah.</p>	<p>a. Number of new Clean Utah participants.</p> <p>Status: Growth in Clean Utah has remained unchanged but current Partners remain active in maintaining and implementing new P2 strategies. TRI and a possible hazardous materials exchange is providing additional opportunities for members.</p> <p>b. Pollution reductions realized through these efforts in business or industry.</p> <p>STATUS: Clean Utah Partner Annual Reports included: Reduced Electricity consumption by 3,142,111 kWh; reduced solid waste by 3517.2 MT, Reduced 22,220 MTCO_{2e}; reduced 29.85 metric tons of NO_x; reduced water usage by 8,472,684 gallons; and Partners reported an Economic Benefit of \$3,725,821 from programs implemented through Clean Utah</p>

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 POLLUTION PREVENTION AND STAKEHOLDER INVOLVEMENT
 FY2017 END OF YEAR REPORT**

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>c. Successful recognition event held STATUS: DEQ Clean Utah Members and other invited businesses at the Clean Utah Recognition Luncheon held on November 1, 2016. Working to combined future recognition event with the Governor’s Office of Energy Development.</p>
		<p>2. Promote P2 practices and tools that are available to businesses through DEQ’s BizHelp Webpage. P2 tools and resources will emphasize ways to reduce emissions and use of hazardous materials and conserve natural resources, including water and energy resources.</p>	<p>a. Number of web hits on DEQ BizHelp Webpages STATUS: 4641 web hits on BizHelp and Clean Utah pages.</p> <p>b. Number of new and ongoing partnerships. New Partnerships: Holbrook Service, Alpine Body Shop, Utah Auto Body Association, Utah Clean Energy and Utah Governor’s Office of Energy Development. Existing and Continuing Partnerships: Utah Paper Box, Leaders for Clean Air, Jordan Valley Water Conservancy District, VA Salt Lake City Hospital, Momentum Recycling, and Northrop Grumman Corporation, Salt Lake Chamber, StopWaste Organization, North Front Business Resource Center, Reusable Packaging Association, UDOT’s TravelWise, 3form Materials Solutions, Specialty Lens and Horizon Milling, Utah Food Services, National Energy Foundation, Manufacturing Extension Partnership of Utah, Rocky Mountain Power, Clean Cities, Salt Lake City, Salt Lake County, Economic Development Corporation of Utah, Envision Utah, Utah Manufacturers Assn., Intermountain Health Care, University of Utah, Utah Office of Energy, Kennecott Land, Kennecott Utah Copper Operational Services, IM Flash Technologies, Big D Construction, Staker Parson Companies, Swire Coca-cola, Nucor Steel, National Energy Foundation, Utah Chapter of AWWA, Xanterra-Zion Lodge, Utah Transit Authority, Autoliv,</p>

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POLLUTION PREVENTION AND STAKEHOLDER INVOLVEMENT
FY2017 END OF YEAR REPORT**

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			Hexcel Corporation, Firestone Building Products, Circle Four Farms, Granite Construction, Red Hanger Cleaners, Weber State University, May Foundry, Tear-a-Part, USANA.
		<p>3. Promote P2 practices through the Toxic Release Inventory (TRI) tool identifying effective environmental practices that will lead to measurable improvements.</p> <p>Promotion of the TRI P2 tool is to be combined with broader outreach to business in the areas of compliance and permitting assistance as well as with recognition programs. Businesses and institutions will be encouraged to develop options for the replacement and reduction of the use of toxic chemicals.</p> <p>DEQ will recognize and highlight successes and promote effective practices to similar businesses in the state.</p>	<p>a. Number of facilities contacted in promotion of TRI P2. b. Number of facilities adopting P2 plans associated with TRI c. Pollution reductions realized through these efforts in business or industry. d. TRI P2 case studies added to DEQ Bizhelp pages. STATUS: Utah's TRI P2 program has expanded to include a hazardous materials exchange program. Four Businesses are identifying waste streams and exchange options. One Clean Utah business assisting in hazardous waste resource exchange case study. Initiation resource exchange event to be scheduled first quarter 2018.</p>
		4. Track P2 grant spending and complete midyear and annual grant objectives	<p>a. Grant objectives met. b. State budget review and planning completed. c. Positive feedback received from EPA and State grant/finance offices. STATUS: Grant proposal and annual reports submitted on time meeting the objectives of this grant.</p>

**UDEQ OFFICE OF PLANNING AND PUBLIC AFFAIRS
 POLLUTION PREVENTION AND STAKEHOLDER INVOLVEMENT
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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
		5. Support the Governor's Utah Clean Air Partnership (UCAIR) initiative by providing resources to implement strategies and providing calculators to measure emission reductions.	a. Assistance provided STATUS: U-CAIR is operating as 501c3 with P2 staff taking a collaborative role only.
		GOAL #3: Promote a sustainable relationship between economic development and environmental protection by coordinating work with businesses and related organizations.	
		Business Assistance Objectives: 1. Facilitate UDEQ cross-media business assistance.	a. Businesses making phone or e-mail contact to PPA receive informational assistance. STATUS: Responded to requests for information and assistance through phone calls and email. b. Pre-design meetings are held. STATUS: Conducted one Pre-design meeting. c. Cross-divisional, sector specific focus in outreach activities developed and implemented, as appropriate. STATUS: Responded to requests for information and assistance through phone calls and email. d. Business assistance Web pages are regularly updated. STATUS: Ongoing. e. Opportunities are taken to encourage consistent business assistance policies within UDEQ. STATUS: Ongoing. f. Regular coordination with GOED, EDCU, business assistance providers, Chambers of Commerce, and professional associations. STATUS: Routinely coordinates with the Governor's Office of Economic Development, Economic Development Corp of Utah, Utah

**UDEQ OFFICE OF PLANNING AND PUBLIC AFFAIRS
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 FY2017 END OF YEAR REPORT**

EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>Manufacturers Association, Chambers of Commerce and numerous other organization in providing resources and assistance. Upon request provides EDCU Business Development with assistance on issue associated with DEQ and impacting new business development.</p>
		<p>2. Serve as Small Business Ombudsman for UDEQ.</p>	<p>a. Air Quality Small Business Compliance Panel remains active and quarterly meetings are held. STATUS: Small Business CAP remains active with quarterly meetings and additional email and phone updates. CAP members are invited to participate in air quality planning initiatives.</p> <p>b. Availability of ombudsman is promoted on website and as part of informational presentations, as appropriate. STATUS: Information and contacts are provided on appropriate webpages. Ombudsman page updated and linked from DEQ Home page.</p> <p>c. Number of businesses contacted for DEQ feedback. STATUS: 466 businesses contacted directly with feedback survey request.</p> <p>d. Number of responses from business. STATUS: 93 businesses responded with feedback.</p> <p>e. Issues brought to ombudsman are appropriately handled. STATUS: Ongoing. Responded to requests for assistance through phone calls and email.</p>

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
			<p>f. Opportunities are taken to encourage small business considerations in UDEQ policy development. STATUS: Tools and resources focused on small business needs. Small businesses are included in air quality planning initiatives to help understand their issues and work with them to design tailored solutions.</p> <p>g. Small businesses receive assistance with UDEQ permitting process and other programs as needed. STATUS: Ongoing through Pre-design and website and with an online tool, "Permit Wizard" on the DEQ website.</p> <p>h. Annual EPA Small Business Assistance Program report is completed. STATUS: Annual 507 Report was completed and submitted on time.</p>
<p>Cross-cutting Strategy: Working Toward a Sustainable Future</p>	<p>CUSTOMER SERVICE</p> <p>GOAL #4: Provide public information and participation opportunities.</p> <p>Public Education Objectives: Design and implement issue-specific campaigns to inform and involve the public.</p>	<p>a. Proactively employ traditional and social media to inform public of issues and programs.</p>	
		<p>b. Employ DEQ's website as a databank of detailed, project-specific information. STATUS: Facebook, Twitter, YouTube and Pinterest are frequently utilized to promote DEQ initiatives and programs. The DEQ Blog (Initiated April 8, 2014) continues to addresses environmental issues in the news with weekly posts contributed from DEQ Staff and invited guests. DEQ Branding efforts continue and now are expanding to a refresh of DEQ's website with focus on improving navigation as well as providing uniform and transparent messaging.</p>	

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EPA Goal and Objective	EPA Measurement	UDEQ Goal	UDEQ Measure
		<p>Stakeholder Involvement Objectives:</p> <p>As needed assist DEQ programs and project managers with outreach and web resources for specific projects</p>	<p>a. Assistance Provided. STATUS: Ongoing as needed.</p>
<p>Cross-cutting Strategy: Working Toward a Sustainable Future</p>		<p>Media Relations Objective:</p> <p>1. Assist PIO with UDEQ media relations. 2. Utilize and Improve UDEQ's Web site to proactively highlight issues and keep it current and relevant.</p>	<p>a. Web site improved for better customer service. b. PIO back-up is provided. c. UDEQ media policy is followed. STATUS: OPPA works with webmaster and Divisions to create and update online and hard copy information and outreach materials. OPPA also coordinates with Local Health Departments by attending quarterly PIO meetings.</p>
		<p>Branding Objective:</p> <p>Continue to define and establish DEQ's brand to help the public better engage with DEQ.</p>	<p>a. Continued development and promotion of DEQ's brand. STATUS: The Utah Department of Environmental Quality (DEQ) announced the development of a new branding strategy at the end of 2014 which included a modernized logo as a part of the agency's effort to address misconceptions regarding the agency's purpose, and to promote public awareness of its mission and work. Utah DEQ continues to expand the branding campaign with the focus now on a refresh of DEQ's website and adoption and presentation of a new Mission, Vision and Values statement. The goal of the refresh with both the website and the Mission Statements is to continue to improve messaging, both internally and externally, and to improve both transparency and uniformity of message.</p>

UDEQ OFFICE OF PLANNING AND PUBLIC AFFAIRS POLLUTION PREVENTION AND STAKEHOLDER INVOLVEMENT FY2017 END OF YEAR REPORT

Quality Assurance End-of-Year Report Template for year 2017

State of Utah

1. Annual review of the department quality system was conducted. **yes (12/07/2018)**

If answered no, when the annual review is scheduled _____
date

2. As a result of the annual review, will the QMP be revised? **No**

- A. Major revision: [e.g. scope or policy or requirements change] *Please submit draft QMP to EPA for review/approval*

QMP was revised prior to the annual QS review and revised version was adopted December 2018. No new revisions as a result of the Annual QS review.

- B. Minor revision: [e.g. personnel changes, points of contact, changes to process excluding policy changes] *Document change. QMP does not require EPA review/approval*

Describe _____

- C. Were gaps or vulnerabilities identified and does the state want assistance from EPA?

Gap As a result of QMP five year revision and as discussed in the annual QS review starting in 2018 Divisions will annually track training, SAP approvals and additional Quality System related issues.

Describe assistance desired. None needed at this time

Title/description of training	Training Provider	Date(s) Held	Number of Attendees

4. Please list the QA documents [e.g. quality assurance project plans, QAPP; sampling and analysis plans, SAP; field sampling plans, FSP; division quality management plans; QMP] reviewed and approved under the QMP in the last year.

Title	Approval or Reapproval date	Documents new or continuing projects?	Environmental Program [e.g. 106, 105, UST/LUST]
Utah Division of Waste Management and Radiation Control Quality Assurance Program Plan	Jan27, 2017	Five Year Review and revision incorporating organizational change. Crosswalk completed	Solid Waste Disposal Act

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Division of Air Quality Air Monitoring Quality Assurance Program Plan	Nov 2017	Continuing/Minor Revision	Air Monitoring
CERCLA Branch Quality Assurance Program Plan	Nov 2017	Continuing/Minor revision. Full revision and Crosswalk review to be conducted 2018	CERCLA

Please expand tables or attach additional pages, if needed.